Tulsa Community College
Degree & Certificate Programs
GENERAL EDUCATION GOALS FOR ALL DISCIPLINES AND PROGRAMS

General education is at the core of the academic curriculum for all degree-seeking students. The general education goals of the College are met by combining the general education course requirements with the coursework for each major or program as listed in the curriculum patterns found in the College catalog. Together, courses taken for the general education requirements and those taken for specific degrees will ensure that graduates of Tulsa Community College have the skills, knowledge, and attitudes to carry them successfully through their work and their personal lives. Tulsa Community College students will be able to demonstrate:

Goal #1: Critical Thinking
Critical thinking is the ability to use reasoning skills or strategies to analyze, evaluate and integrate information.
Students who have developed critical thinking skills will be able to demonstrate at least one of the following:

- comprehend complex ideas, data, and concepts
- make inferences based on careful observation
- make judgments based on specific and appropriate criteria
- solve problems using specific processes and techniques
- recognize relationships among the arts, culture, and society
- develop new ideas by synthesizing related and/or fragmented information
- apply knowledge and understanding to different contexts, situations, and/or specific endeavors
- recognize the need to acquire new information

Goal #2: Effective Communication
Effective communication is the ability to develop organized, coherent, unified written and oral presentations for various audiences and situations.
Students who have developed effective communication skills will be able to demonstrate at least one of the following:

- organized, coherent and unified written presentations (in the language of your discipline) for various audiences and situations
- organized, coherent and unified oral presentations (in the language of your discipline) for various audiences and situations

Goal #3: Engaged Learning
Engaged Learning is meaningful participation in civic, scholarly and cultural activities.
Students who are engaged learners will be able to demonstrate at least one of the following:

- involvement in any collegiate or civic organization or a social action project
- participation in a campus, municipal, state and/or national campaign
- participation in an event or service-learning activity designed to increase awareness of another culture, a current issue, and/or an academic discipline
- an understanding of significant social, political, economic and/or historical concepts related to the United States
- knowledge of the geography, history, culture, values and/or language of another country
- an understanding of the impact of economic, political, and/or technological changes on diverse cultures

Goal #4 Technological Proficiency
Technological proficiency includes knowledge of productivity and communication application tools, electronic research capability, and discipline-related technologies. Students who have developed technological proficiency will be able to accomplish at least one of the following:

- complete an assignment using an appropriate application software
- use Blackboard for course related assignments and information
- search for and use information electronically
- demonstrate the usage of instrumentation related to a specific discipline

ARTICULATION & TRANSFER
A principle function of Tulsa Community College is to provide general education courses, associate degrees for university transfer, and workforce development programs for students who want direct entry into the workforce. TCC has made “articulation agreements” with both public and private, (in-state and out-of-state) institutions to provide many transfer options for TCC students. These agreements include both on-campus and Internet courses and programs. Students are cautioned to work closely with an academic advisor to ensure transferability of their courses, as requirements often differ among four-year institutions in Oklahoma and in other states.

Some institutions with which TCC has developed articulated transfer agreements are: Oklahoma State University, the University of Oklahoma, Langston University, Northeastern State University, Southern Nazarene University, The University of Tulsa, Oral Roberts University, Emporia State University (KS), Northwest Missouri State University, the University of Phoenix, and Oklahoma City University.
PROGRAMS DESIGNED TO TRANSFER TO SENIOR COLLEGES & UNIVERSITIES

Students may take freshman and sophomore level courses at Tulsa Community College which lead to a baccalaureate degree or professional degree in practically any field of study. To determine whether all courses in a degree program will transfer for degree credit at the receiving institution, in Oklahoma or another state, work closely with a transfer counselor. Some of these fields of study are:

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Students may complete many of the freshman and sophomore prerequisite courses at TCC. Since students cannot earn an associate degree in the fields listed below, they should visit with their advisor in a Counseling and Testing Center to determine the appropriate TCC major/degree plan that will transfer to the university of their choice.

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<th>Accounting</th>
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<td>Health Education</td>
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If you do not find your field of study listed, our Counseling staff will help you match TCC courses to your area of interest.

*Social Work - See Human Services Pre-Social Work in the Community Services section

**Therapeutic Recreation - See Human Services Therapeutic Recreation in the Community Services section

Courses used to fulfill general education requirements at TCC are listed on page 69. A code letter preceding a course title designates the general education category for which the courses may be used, as follows:

<table>
<thead>
<tr>
<th>A: Analytical &amp; Quantitative Thought</th>
<th>L: Laboratory Science</th>
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<tr>
<td>H: Humanities</td>
<td>S: Social &amp; Behavioral Sciences</td>
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<tr>
<td>I: International or Non-Western Dimension</td>
<td>D: Diversity component of domestic, not international, scope</td>
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WORKFORCE DEVELOPMENT PROGRAMS by CAMPUS

These degree and certificate programs are designed to prepare students for direct entry into the workforce. They may advance students within their current career positions or open doors to new career opportunities. Coursework may apply towards a degree at a four-year university; check with an advisor for further information. The number of hours that apply to a degree will vary from one university to another.

A: ASSOCIATE IN APPLIED SCIENCE DEGREE
C: CERTIFICATE OF ACHIEVEMENT

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<tr>
<td>Youth Development Cert. of Mastery</td>
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<tr>
<td>Teacher Assistant</td>
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<td></td>
<td>A</td>
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<tr>
<td>Emergency Medical Technology</td>
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<td>A</td>
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<tr>
<td>Fire &amp; Medical Services</td>
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<tr>
<td>Emergency &amp; Community Preparedness option</td>
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<tr>
<td>Human Services, options in:</td>
<td></td>
<td></td>
<td>A/C</td>
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<tr>
<td>Chemical &amp; Alcohol Dependency Counseling</td>
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<td>A</td>
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<tr>
<td>Community Services Management</td>
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<td>A</td>
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</tbody>
</table>
**Community Service**

<table>
<thead>
<tr>
<th>Human Services options in:</th>
<th>Metro Campus</th>
<th>Northeast Campus</th>
<th>Southeast Campus</th>
<th>West Campus</th>
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</thead>
<tbody>
<tr>
<td>Corrections</td>
<td></td>
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<td>A</td>
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<tr>
<td>Developmental Disabilities</td>
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<tr>
<td>Direct Support Professional I</td>
<td></td>
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<tr>
<td>Family Studies</td>
<td></td>
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<td>A</td>
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<tr>
<td>Gerontology</td>
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<tr>
<td>Interpreter Education</td>
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<tr>
<td>Law Enforcement</td>
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<tr>
<td>Collegiate Officer option</td>
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</table>

**Health Sciences**

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<tr>
<th>Allied Health</th>
<th>Metro Campus</th>
<th>Northeast Campus</th>
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<th>West Campus</th>
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</thead>
<tbody>
<tr>
<td>Dental Assisting</td>
<td></td>
<td></td>
<td>A</td>
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<tr>
<td>Dental Hygiene</td>
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<td>A</td>
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<tr>
<td>Medical Laboratory Technician</td>
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<tr>
<td>Phlebotomy</td>
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<tr>
<td>Occupational Therapy Assistant</td>
<td></td>
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<td>A</td>
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<tr>
<td>Pharmacy Technology</td>
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<tr>
<td>Physical Therapist Assistant</td>
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<td>A</td>
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<tr>
<td>Radiography</td>
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<tr>
<td>Respiratory Care</td>
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</tbody>
</table>

**Medical Office Support**

Health Information Technology:

| Medical Records                   |              |                  | A                |            |
| Coding & Reimbursement Specialist |              |                  | C                |            |
| Medical Assistant                 |              |                  | C                |            |
| Clinical Administrative           |              |                  | C                |            |
| Transcription                     |              |                  | C                |            |

**Nursing**

| Nursing                           |              |                  | A                |            |
| Geriatric Technician              |              |                  | C                |            |
| Patient Care Technician           |              |                  | C                |            |
| Surgical Technology               |              |                  | A                |            |
### Manufacturing

<table>
<thead>
<tr>
<th>Program</th>
<th>Metro Campus</th>
<th>Northeast Campus</th>
<th>Southeast Campus</th>
<th>West Campus</th>
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</thead>
<tbody>
<tr>
<td>Manufacturing Engineering Technology</td>
<td>A</td>
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<tr>
<td>Process Technology</td>
<td>A/C</td>
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<tr>
<td>Quality Control</td>
<td>A/C</td>
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</table>

### Science, Technology, Engineering & Math

<table>
<thead>
<tr>
<th>Program</th>
<th>Metro Campus</th>
<th>Northeast Campus</th>
<th>Southeast Campus</th>
<th>West Campus</th>
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</thead>
<tbody>
<tr>
<td>Biotechnology</td>
<td>A/C</td>
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<tr>
<td>Civil Engineering/Surveying Technology</td>
<td>A/C</td>
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<tr>
<td>Construction option</td>
<td>A</td>
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<tr>
<td>Drafting &amp; Design Engineering</td>
<td>A</td>
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<tr>
<td>Drafting &amp; Computer Aided Design</td>
<td>C</td>
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<tr>
<td>Electronics Technology</td>
<td>A/C</td>
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<tr>
<td>Alternative Energy</td>
<td>A/C</td>
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<tr>
<td>Biomedical Equipment Technology</td>
<td>A/C</td>
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<tr>
<td>Electromechanical Manufacturing Technology</td>
<td>A</td>
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<tr>
<td>Nanotechnology</td>
<td>A/C</td>
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<tr>
<td>ELE US Navy Option</td>
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<tr>
<td>Horticulture Technology</td>
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<tr>
<td>General Horticulture</td>
<td>A/C</td>
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<tr>
<td>Golf &amp; Sports Turf</td>
<td>A/C</td>
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<tr>
<td>Greenhouse &amp; Nursery Production</td>
<td>A/C</td>
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<tr>
<td>Floral Design &amp; Interiorscape</td>
<td>A/C</td>
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<tr>
<td>Landscape Design &amp; Construction</td>
<td>A/C</td>
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<tr>
<td>Landscape Maintenance</td>
<td>A/C</td>
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<tr>
<td>Interior Plant Care Specialist</td>
<td>A/C</td>
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<tr>
<td>Landscape Specialist</td>
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<tr>
<td>Veterinary Technology</td>
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### Transportation, Distribution & Logistics

<table>
<thead>
<tr>
<th>Program</th>
<th>Metro Campus</th>
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<th>Southeast Campus</th>
<th>West Campus</th>
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</thead>
<tbody>
<tr>
<td>Air Traffic Control</td>
<td>A</td>
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<tr>
<td>Aviation Sciences Technology, options in:</td>
<td>A</td>
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<tr>
<td>Flight Simulator Specialist Technician</td>
<td>A</td>
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<tr>
<td>Aviation Maintenance Technology</td>
<td>A</td>
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<tr>
<td>Avionics</td>
<td>A</td>
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<tr>
<td>Management</td>
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</tbody>
</table>
General Education Requirements: 37 Hours

### English Composition
- ENGL 1113 Freshman Composition I and ENGL 1213 Freshman Composition II...6 Hours

### American History
- HIST 1483 U.S. History 1492-Civil War Era or HIST 1493 U.S. History Civil War Era-Present...3 Hours

### U.S. Government
- POLS 1113 American Federal Government...3 Hours

### Science (One course must be a laboratory science (L)...
- ASTR 1104 General Astronomy and CHEM 2145 Organic Chemistry I...7 Hours

### Humanities
- AFRS 2713 Survey of African Civilizations and HUMN 2443 Art of Film...6 Hours

### Mathematics
- MATH 1473 Math For Critical Thinking and MATH 1715 College Algebra and Trigonometry...3 Hours

### Required Electives
- At least one 3-hour course from the following disciplines: Psychology, Social Sciences, **Foreign Languages, Fine Arts (Art, Music, and Theatre)...3 Hours

### Recommended Electives
- Total Hours...6 Hours

---

CSCI 1203 Computer Concepts and Applications - To receive an Associate in Arts or Associate in Science degree from TCC, students must demonstrate computer proficiency, including basic knowledge of operating systems, word processing, and the ethical use of internet research capabilities. Please see page 22 for complete requirements.

SPCH 1113 Speech Communications I, one course designated "I" for international or non-western dimensions, and additional hours of Humanities and/or Science courses as needed to meet minimum total of 37 credit hours.

*Course has prerequisite (see course description section of catalog). **9-15 hours required for International Business Degree.
Arts & Communications Areas of Study

AA: Associate in Arts, university transfer degree • AS: Associate in Science, university transfer degree
AAS: Associate in Applied Science, workforce degree • CER: Certificate of Achievement

University transfer degree programs include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Workforce development degree and certificate programs are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Communication Arts
- Communications Sciences & Disorders, AA
- English, AA
  - (Interpreter Education, AA/AAS/CER see Community Services, Education & Training)
- Journalism & Mass Communication, AA
- Speech, AA

Graphic Arts
- Digital Media, AAS/CER
- Graphics & Imaging Technology, AAS

International Language Arts
- Chinese, CER
- French, AA/CER
- German, AA/CER
- Italian, AA/CER
- Japanese, AA/CER
- Russian, AA/CER
- Spanish, AA/CER
- Spanish, NSU option, AA
- Spanish Interpreting Skills, CER
- Spanish Translating Skills, CER

Liberal Arts & Social Sciences
- American Studies, AA
  - (Criminal Justice - see Community Service, Law, Public Safety & Corrections)
  - (Geography, AS - see Science, Technology, Engineering & Mathematics)
- History, AA
- Humanities, AA
- Liberal Arts, General AA
- Liberal Arts, International AA
- Liberal Arts, Film AA
- Liberal Arts, Native American Studies, AA
- Philosophy, AA
- Political Science, AA
- Psychology, AA
- Religious Studies, AA
- Sociology, AA

Visual & Performing Arts
- Art, AA
  - (Interior Design, AAS/CER see Business Areas of Study)
- Music, AA
- Theatre, AA
- Stage Production Technology, AAS
- Stage Production Technology, CER:
  - Costume, Entertainment Construction, Lighting, Rigging, Sound & Stage Management
COMMUNICATION SCIENCES & DISORDERS
Oklahoma State University Transfer

Program Description:
This curriculum plan includes TCC degree requirements and prerequisite courses for the Communication Services Disorders major at Oklahoma State University-Tulsa. This program has been specifically designed to provide a seamless transition, and students may use their associate degree from TCC as the first two years of the baccalaureate degree at Oklahoma State University.

Degree Awarded: Associate in Arts

For More Information Contact:
Communication Services Division
Metro: (918) 595-7064
Liberal Arts/Community Service Division
Northeast: (918) 595-7494
Counseling Center
Metro: (918) 595-7151 • Northeast: (918) 595-7527

General Education Requirements Credit Hours: 38

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See the General Education Requirements for complete list.

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Science 8 hours
Biol 1224 Introduction to Biology for Majors
*BIOL 2134 Human Anatomy

Social Science 6 hours
POLS 1113 American Federal Government
and select 3 credit hours from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Required Electives 6 hours
Social and Behavioral Sciences
PSYC 1113 Introduction to Psychology
and select 3 credit hours from the following:
SOCI 1113 Introduction to Sociology
HSVC 2023 Lifespan Development

Specialized Course Requirements Credit Hours: 22-34

Chemistry 5 hours
*CHE 1315 General Chemistry I

Interpreter Preparation 3 hours
INED 1363 American Sign Language I

Speech 6 hours
SPCH 1113 Speech Communications I
*SPCH 2203 Phonetics

Recommended Electives 5-8 hours
*BIOL 2154 General Physiology
SPCH 1151 Effective Communications
and 0-3 hours necessary to complete 60 credit hours
(Students must have minimum of 60 credit hours to receive a degree)

Language 0-12 hours
Two years of high school foreign language or
12 credit hours in the same language or equivalent proficiency,
which may include the courses listed below:
*INED 1374 American Sign Language II
*INED 2414 American Sign Language III
*INED 2524 American Sign Language IV

Total Credit Hours: 60-69
*Course has prerequisite (See course description section of catalog)
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

ENGLISH

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in English may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Arts

For More Information Contact:
Communication Services Division
Metro: (918) 595-7064 • Northeast: (918) 595-7494
Counseling Centers
Metro: (918) 595-7151 • Northeast: (918) 595-7527
Southeast: (918) 595-7651 • West: (918) 595-8176

General Education Requirements Credit Hours: 37
See the General Education Requirements for complete list.

Specialized Course Requirements Credit Hours: 15

English 15 hours
*ENGL 2413 Introduction to Literature
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2653 Survey of British Literature from 1800
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865

Recommended Electives Credit Hours: 9
ART 1053 Art History Survey I
ART 1063 Art History Survey II
ART 1113 Art Appreciation
ECON 2013 Principles of Macroeconomics
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications
FREN 1103 French I
ARTS & COMMUNICATIONS: COMMUNICATION ARTS

*FREN 1213 French II
*FREN 1313 French III
*FREN 1413 French IV

HIST 1033 History of Oklahoma
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
HIST 1083 Survey of English History to 1688
HIST 1093 Survey of English History 1688-Present
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present
HUMN 2113 Humanities I
JRMC 1013 Introduction to Mass Communications
*JRMC 1123 News Writing and Reporting
MUSC 1113 Music Appreciation
PHIL 1113 Introduction to Philosophy
PHIL 2113 Logic
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology
SPAN 1103 Spanish I
*SPAN 1213 Spanish II
SPCH 1113 Speech Communication I
THEA 1093 Introduction to Theatre

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog) To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

JOURNALISM & MASS COMMUNICATIONS

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Arts

For More Information Contact:
Communications Services Division
Metro: (918) 595-7064
Counseling Center: Metro
(918) 595-7151

General Education Requirements Credit Hours: 34
See the General Education Requirements for complete list. Remaining General Education Requirements are satisfied in the Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 24

English 3 hours
ENGL 1083 Grammar and Mechanics of Writing

Journalism 9 hours
JRMC 1013 Introduction to Mass Communications
*JRMC 1113 Writing for the Mass Media
*JRMC 1123 News Writing and Reporting

Speech 3 hours
SPCH 1113 Speech Communication I

Select one of the following specialized options: 9 hours

Television Broadcasting OPTION **100 D
JRMC 1103 Introduction to Broadcasting
*JRMC 2263 Digital Video I/Final Cut Pro
*JRMC 2173 Advanced Broadcasting
or
*JRMC 2273 Digital Video II/Final Cut Pro

Public Relations/Advertising OPTION **100 B
*JRMC 2013 Principles of Advertising
*JRMC 2183 Principles of Public Relations
MKTG 2423 Principles of Marketing

Controlled Electives 3 Hours:
*CSYS 2673 Adobe Illustrator
*CSYS 2683 Adobe InDesign
*ENGL 2343 Business Communications
HIST 2043 Contemporary Affairs
JRMC 1143 Reporting Across Cultures
*JRMC 2013 Principles of Advertising
*JRMC 2143 Studio Production
JRMC 2153 International Communication and Global Media
*JRMC 2173 Advanced Broadcasting
*JRMC 2183 Principles of Public Relations
*JRMC 2263 Digital Video I/Final Cut Pro
*JRMC 2273 Digital Video II/Final Cut Pro
*JRMC 2373 Broadcast Laboratory
*JRMC 2433 Field Production
*JRMC 2853 Photography
*JRMC 2863 Photojournalism
*JRMC 2973 Journalism and Mass Communications Internship I
*JRMC 2983 Journalism and Mass Communications Internship II
MKTG 2423 Principles of Marketing
*SPCH 2093 Business and Professional Speech
SPCH 2313 Voice and Diction I
*THEA 2453 Script Writing

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
**SPEECH**

**Program Description:**
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

**Degree Awarded: Associate in Arts**

**For More Information Contact:**
Liberal Arts Divisions
Northeast: (918) 595-7494 • West: (918) 595-8079
Communications Divisions
Metro: (918) 595-7064 • Southeast: (918) 595-7694
Counseling Centers
Metro: (918) 595-7151 • Northeast: (918) 595-7527
Southeast: (918) 595-7651 • West: (918) 595-8176

**General Education Requirements Credit Hours: 37**
See the General Education Requirements for complete list.

**Specialized Course Requirements Credit Hours: 15**

**Speech 15 hours**
SPCH 1013 Fundamentals of Listening
**SPCH 1113 Speech Communication I**
SPCH 2053 Intercultural Communication
SPCH 2073 Oral Interpretation
*SPCH 2093 Business and Professional Speech
SPCH 2103 Interpersonal Communication
SPCH 2313 Voice and Diction I
*SPCH 2323 Voice and Diction II

**Recommended Electives Credit Hours: 9**
*ENGL 2773 Survey of American Literature to 1865
JRMC 1013 Introduction to Mass Communication
PHIL 2113 Logic
PHIL 2133 Introduction to Ethical Thinking
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
SPCH 2333 Forensics
SPCH 2343 Forensics Performance Competition
SPCH 2351 Forensics Competition Practicum

**Total Credit Hours: 61**
*Course has prerequisite (See course description of catalog).
**This course required as part of the 15 hour program requirements. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
DIGITAL MEDIA

1) Adobe Master Design Specialist 598A
2) Broadcast Production Specialist 598B
3) Digital Media Specialist 598C
4) Print and Online Reporting Specialist 598D
5) Web Design Specialist 598E

Program Description:
Digital Media is an interdisciplinary area of study combining computer science, art, video, music, journalism/mass communications, and design. Through the Center for Creativity, digital media specialists prepare for careers in graphic design, advertising, print media, digital photography, animation, digital character development, virtual cinematography, digital video, special effects, print and online reporting, television broadcast production, interactive media, web site development, online instructional technologies and business related to digital arts and entertainment. This degree will transfer to Southern Nazarene University. See Transfer Guide.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division
Metro (918) 595-7039
Communications Division
Metro: (918) 595-7064
Counseling Centers
Metro: (918) 595-7151

General Education Requirements Credit Hours: 18-19

English 6 hours
*ENGL 1113 Freshman Composition I
select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/ Professional Writing
*ENGL 2343 Business Communications

Mathematics 3-4 hours
*MATH 1454 Technical Mathematics
*MATH 1513 College Algebra

Social Science 6 hours
POL 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 US History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communications

Specialized Course Requirements Credit Hours: 47-49

Art 9 hours
*ART 1013 Fundamentals of Art I
*ART 2423 Graphic Design I
and select one of the following:
ART/JRMC 2853 Photography
CSYS 2763 Digital Photography

Computer Information Systems 16 hours
*CSYS 1033 Adobe Photoshop
*CSYS 1043 Adobe Acrobat
*CSYS 1073 Advanced Photoshop
CSYS 1211 Introduction to Mac OS
CS 1203 Computer Concepts and Applications
and select one course from the following:
*CSIS 2973 Digital Media Internship
*JRMC 2973 Journalism and Mass Communication Internship I

Specialized Course Requirements Credit Hours: 22-24
Select from one of the following five (5) options
1) Adobe Master Design Specialist 598A
2) Broadcast Production Specialist 598B
3) Digital Media Specialist 598C
4) Print and Online Reporting Specialist 598D
5) Web Design Specialist 598E

Adobe Master Design Specialist 598A
*ART 2413 Typography I
*CSYS 2573/JRMC 1303 Fundamentals of Videography
*CSYS 2673 Adobe Illustrator
*CSYS 2683 Adobe InDesign
*CSYS 2713 Adobe Premiere
*CSYS 2733 Adobe Soundbooth
*CSYS 2753 Adobe AfterEffects
*CSYS 1153 Adobe Dreamweaver

Broadcast Production Specialist 598B
*CSYS 2573/JRMC 1303 Fundamentals of Videography
*CSIS/3973 Digital Video I Final Cut Pro
*CSIS/JRMC 2273 Digital Video II Final Cut Pro
*JRMC 1103 Introduction to Broadcasting
*JRMC 2173 Advanced Broadcasting
*JRMC 2433 Field Production
*JRMC 2143 Studio Production
*JRMC 2373 Broadcast Laboratory

Digital Media Specialist 598C
*CIS2573/JRMC 1303 Fundamentals of Videography
*CSIS 2733 Adobe Soundbooth
*CSCI 1123 3D Graphics Using Lightwave
*CSCI 1283 Adobe Flash
*CSCI 1293 3D Animation Using Lightwave
*CSCI/JRMC 2263 Digital Video I / Final Cut Pro
*CSCI/JRMC 2273 Digital Video II / Final Cut Pro
*CSYS 2753 Adobe AfterEffects

Print and Online Reporting Specialist 598D
*CSYS 1153 Adobe Dreamweaver
*CSYS 2683 Adobe InDesign
*JRMC 1113 Writing for Mass Media
*JRMC 1123 News Writing and Reporting
JRMC 1143 Reporting Across Cultures
JRMC 1151 Reporting in the Digital Age
JRMC 2163 Editing
*JRMC 2863 Photojournalism
ARTS & COMMUNICATIONS: GRAPHIC ARTS

Web Design Specialist 598E
*CSYS 1013 XHTML
*CSYS 1153 Adobe Dreamweaver
*CSYS 2033 Scripting
*CSYS 2463 PHP Programming
*CSYS 2733 Adobe Soundbooth
*CSYS 1123 3D Graphics Using Lightwave
*CSCI 273 Adobe Flash
*CSCI 2193 3D Animation Using Lightwave

Total Credit Hours: 65-68
*Course has prerequisite (see course description section of catalog).

Digital Media Certificate

1) Adobe Master Design Specialist 598A
2) Broadcast Production Specialist 598B
3) Digital Media Specialist 598C
4) Print and Online Reporting Specialist 598D
5) Web Design Specialist 598E

Program Description:
Digital Media is an interdisciplinary area of study combining computer science, art, video, music, journalism/mass communications, and design. Through the Center for Creativity, digital media specialists prepare for careers in graphic design, advertising, print media, digital photography, animation, digital character development, virtual cinematography, digital video, special effects, print and online reporting, television broadcast production, interactive media, web site development, online instructional technologies and business related to digital arts and entertainment.

Degree Awarded: Certificate of Achievement

For More information Contact:
Business and Information Technology Division
Metro: (918) 595-7039
Communications Division
Metro (918) 595-7064
Counseling Centers
Metro (918) 595-7151

Certificate Requirements Credit Hours: 35-37

Computer Information Systems 13 hours
*CSYS 1033 Adobe Photoshop
*CSYS 1043 Adobe Acrobat
*CSYS 1073 Advanced Photoshop
CSYS 1211 Introduction to Mac OS
CSCI 1203 Computer Concepts and Applications

Specialized Course Requirements Credit Hours 22-24
select from on of the following five (5) options
1) Adobe Master Design Specialist 598A
2) Broadcast Production Specialist 598B
3) Digital Media Specialist 598C
4) Print and Online Reporting Specialist 598D
5) Web Design Specialist 598E

Adobe Master Design Specialist 598A
ART 2143 Typography
*CSYS 1041 Adobe Acrobat
*CSYS 2573/JRMC 1303 Fundamentals of Videography
*CSYS 1153 Adobe Dreamweaver
*CSYS 2673 Adobe Illustrator
*CSYS 2683 Adobe InDesign
*CSYS 2713 Adobe Premiere
*CSYS 2733 Adobe Soundbooth
*CSYS 2753 Adobe AfterEffects

Broadcast Production Specialist 598B
*CSYS 2573/JRMC 1303 Fundamentals of Videography
*CSCI/JRMC 2263 Digital Video I / Final Cut Pro
*CSCI/JRMC 2273 Digital Video II / Final Cut Pro
*JRMC 1103 Introduction to Broadcasting
*JRMC 2143 Studio Production
*JRMC 2173 Advanced Broadcasting
*JRMC 2373 Broadcast Laboratory
*JRMC 2433 Field Production

Digital Media Specialist 598C
*CSYS 2573/JRMC 1303 Fundamentals of Videography
*CSYS 2733 Adobe Soundbooth
*CSYS 1123 3D Graphics using Lightwave
*CSCI 273 Adobe Flash
*CSCI 2193 3D Animation using Lightwave
*CSCI/JRMC 2263 Digital Video I / Final Cut Pro
*CSCI/JRMC 2273 Digital Video II / Final Cut Pro

Print and Online Reporting Specialist 598D
*CSYS 1153 Adobe Dreamweaver
*CSYS 2753 Adobe InDesign
*JRMC 1113 Writing for Mass Media
*JRMC 1123 News Writing and Reporting
JRMC 1143 Reporting Across Cultures
JRMC 1151 Reporting in the Digital Age
*JRMC 2163 Editing
*JRMC 2863 Photojournalism

Web Design Specialists 598E
*CSYS 1013 XHTML
*CSYS 1153 Adobe Dreamweaver
*CSYS 2033 Scripting
*CSYS 2463 PHP Programming
*CSYS 2733 Adobe Soundbooth
*CSYS 1123 3D Graphics using Lightwave
*CSCI 1283 Adobe Flash
*CSCI 2193 3D Animation Using Lightwave

Total Credit Hours: 35-37
*Course has prerequisite (See course description section of catalog).
GRAPHICS AND IMAGING TECHNOLOGY

Program Description:
This program is developed jointly by Tulsa Community College and Tulsa Technology Center. Printing is the process of manufacturing visual products intended for communicating a message through permanent graphic images. Production of printed materials involves work in a wide variety of graphic arts occupations and skill levels. This program offers training in the process of printing from plates produced by photographic negatives for both offset and flexographic printing. During the first year, the student will experience basic training in total production procedures including electronic imaging (desktop publishing) use Apple Macintosh computers and QuarkXpress page layout software, camera and darkroom, negative stripping, platemaking process, offset press operation, flexographic press operations, and binding/finishing. Emphasis during the second year is on mechanical and quality control. Advanced training is given in bindery procedures, press operations, prepress operation, and electronic imaging using Photoshop and Illustrator software. Successful completion will qualify TCC’s Graphics and Imaging Technology students for national certification by the Graphics Art Education Council and the Printing Industries of America. Students who attain a state competency certificate(s) will be placed on the Printing Industries of America’s National Employment Registry, 100 Daingerfield Rd., Alexandria, VA. 22314-2888, Phone: 703-519-8100. Course Location: Graphics and Imaging Technology courses will be taken at Tulsa Technology Center-Lemley Campus. General education courses will be offered by Tulsa Community College.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Tulsa Community College Business and Information Technology Division at West Campus:
(918) 595-8033
Tulsa Technology Center Career Resources Center Department:
(918) 828-5151

Procedures for Application:
1. Obtain an admission packet from Tulsa Technology Center. Packets are located at all Tulsa Tech campuses in the Adult Education Office.
2. An admission test is required for full-time programs at Tulsa Technology Center (see admission packet for details).
3. Submit completed program application form and required documents to the Career Services Center, Tulsa Technology Center, 3420 S. Memorial Dr., Tulsa OK 74145. Please call (918) 828-5200 for application deadlines.
4. All prospective Graphics and Imaging Technology students must complete an application for enrollment to Tulsa Community College and submit their high school transcripts, GED scores, ACT/SAT scores, college transcripts and any previous training and/or education to any TCC campus registrar.
5. Acceptance to TCC does not guarantee admission to Graphics and Imaging Technology Associate of Applied Science degree.

General Education Requirements Credit Hours: 22-23

Chemistry 4-5 hours
CHE 1034 Practical Chemistry
*CHE 1114 Principles of Chemistry
*CHE 1315 General Chemistry I
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Psychology/Philosophy 3 hours
select one 3 credit hour course from the following:
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
PHIL/BUSN 1143 Introduction to Ethics: Business Issues

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
select one 3 credit hour course from the following:
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication
SPCH/BUSN 2053 Intercultural Communication

Specialized Course Requirements Credit Hours: 32

Graphics and Imaging Technology 32 hours
GT 1011 Graphics Imaging Technologies Introduction
GT 1143 Reproduction Photography
GT 1223 Image Assembly/Platemaking
GT 1333 Basic Press Operation
GT 1413 Basic Electronic Imaging
GT 1443 Finishing/Bindery
#GT 2014 Advanced Electronic Imaging I
GT 2064 Advanced Electronic Imaging II
#GT 2124 Advanced Press Operations I
GT 2224 Advanced Press Operations II

Recommended Electives Credit Hours: 6
BUSB/BUSN 2053 Business Communication

Total Credit Hours: 60-61
*Course has prerequisite (See course description section of catalog).
# Upon completion of Advanced Electronic Imaging I, the student may continue to Advanced Electronics Imaging II or move to Advanced Press Operations I.
## Upon completion of Advanced Press Operations I, the student may continue to Advanced Press Operations II or move to Advanced Electronics Imaging I.
International Language Arts

AA: Associate in Arts, university transfer degree
AS: Associate in Science, university transfer degree
AAS: Associate in Applied Science, workforce degree
CER: Certificate of Achievement

Foreign Language
Transfer degrees with pre-majors in:
• French
• German
• Italian
• Japanese
• Russian
• Spanish
• Spanish NSU option

Associate in Arts Program Description:
The growing need for multi language skills has reached a crisis point. More and more degrees and career paths
require applicants with sufficient competency to communicate with a native speaker of the designated language.
This program is designed for students who wish to acquire oral and written language proficiency, an awareness of
the chosen language's-speaking culture, and who have plans to transfer to a four-year university. TCC instructional
methods infuse technology into the learning process. Students should consult the catalog of the selected university
and choose the TCC language courses that will meet the requirements for both the TCC associate degree and the
baccalaureate degree at the university.

International Language Studies
Certificate options in:
• Chinese
• French
• German
• Italian
• Japanese
• Russian
• Spanish
• Spanish Interpreting Skills
• Spanish Translating Skills

Certificate Program Description:
This program provides an in-depth study of the spoken and written language and prepares students to use the
chosen language as a career skill. The courses are designed to emphasize acquisition of competency sufficient to
communicate orally and in writing with a native speaker of the target language on a professional or work-related
basis. TCC instructional methods infuse technology into the learning process, which increases access to resources for
the language. Graduates find a variety of positions with government or social organizations and firms involved with
speakers of the target language (translating, interpreting, investments, accounting, banking, education, publishing,
manufacturing, sales, service, and travel).

For More Information Contact:
Counseling Centers:
Metro: 918-595-7151  Northeast: 918-595-7527  Southeast: 918-595-7651  West: 918-595-8176
INTERNATIONAL LANGUAGE STUDIES

Chinese Certificate Option

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 20

Chinese 12 hours
CHNS 1103 Chinese I
*CHNS 1213 Chinese II
*CHNS 1313 Chinese III
*CHNS 1413 Chinese IV

Controlled Electives Credit Hours: 8
CHNS 1001 Chinese for Communication I
CHNS 1031 Chinese Pronunciation
*CHNS 1201 Chinese for Communication II
CHNS 2033 Chinese Literature in Translation
CHNS 2041 Chinese-Introduction to the Arts
CHNS 2071 Chinese History and Geography Introduction
*CHNS 2113 Intermediate Chinese I
*CHNS 2121 Intermediate Chinese Communication
CHNS 2143 Asian Civilization and Culture
*CHNS 2213 Intermediate Chinese II
*CHNS 2331-3 Chinese International Seminar and/or Field Studies
CHNS 2421 Chinese Culture Comparisons
ASNS 1103 Asian Philosophy and Culture
ASNS 2693 Asian Literature in Translation
One additional Asian language, 1-5 Credit Hours

Total Credit Hours: 20
*Course has prerequisite (See course description section of catalog)

FRENCH

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
Foreign Language (3 hours Required Elective) and International (6 hours Recommended Elective) may be satisfied with 9 hours of additional French Language courses. See the General Education Requirements for the complete list.
Foreign Language requirement is satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 23

French 18 hours
FREN 1103 French I
*FREN 1213 French II
*FREN 1313 French III
*FREN 1413 French IV
*FREN 2113 Intermediate French I
*FREN 2213 Intermediate French II

French 5 hours
*FREN 1001 French for Communication I
*FREN 1031 French Pronunciation
*FREN 1201 French for Communication II
*FREN 1301 French for Communication III

French Certificate Option

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 25

French 18 hours
FREN 1103 French I
*FREN 1213 French II
*FREN 1313 French III
*FREN 1413 French IV
*FREN 2113 Intermediate French I
*FREN 2213 Intermediate French II

Controlled Electives Credit Hours: 7
*FREN 1001 French for Communication I
*FREN 1031 French Pronunciation
*FREN 1201 French for Communication II
*FREN 1301 French for Communication III
*FREN 1401 French for Communication IV
FREN 2033 French Literature in Translation
FREN 2041 French - Introduction to the Arts
FREN 2071 French History and Geography Introduction
*FREN 2121 Intermediate French Communication
*FREN 2143 French Civilization and Culture
*FREN 2263 Intermediate French Literature
*FREN 2320 International Work and/or Study Seminar
*FREN 2330 French International Seminar and/or Field Studies
*FREN 2413 French Translating
FREN 2421 French Culture Comparisons
*FREN 2433 French Cinema and Conversation
*FREN 2523 Intermediate French Grammar and Composition
*FREN 2533 Advanced French Conversation

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

A native speaker of French (high school courses conducted principally in French) cannot earn Associate of Arts degree credit toward graduation for French courses below the 2000 level.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

INTERNATIONAL LANGUAGE STUDIES

French Certificate Option

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 25

French 18 hours
FREN 1103 French I
*FREN 1213 French II
*FREN 1313 French III
*FREN 1413 French IV
*FREN 2113 Intermediate French I
*FREN 2213 Intermediate French II

Controlled Electives Credit Hours: 7
*FREN 1001 French for Communication I
*FREN 1031 French Pronunciation
*FREN 1201 French for Communication II
*FREN 1301 French for Communication III
*FREN 1401 French for Communication IV
FREN 2033 French Literature in Translation
FREN 2041 French - Introduction to the Arts
FREN 2071 French History and Geography Introduction
*FREN 2121 Intermediate French Communication
*FREN 2143 French Civilization and Culture
*FREN 2263 Intermediate French Literature
*FREN 2320 International Work and/or Study Seminar
*FREN 2330 French International Seminar and/or Field Studies
*FREN 2413 French Translating
FREN 2421 French Culture Comparisons
*FREN 2433 French Cinema and Conversation
*FREN 2523 Intermediate French Grammar and Composition
*FREN 2533 Advanced French Conversation

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

A native speaker of French (high school courses conducted principally in French) cannot earn Associate of Arts degree credit toward graduation for French courses below the 2000 level.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

INTERNATIONAL LANGUAGE STUDIES

French Certificate Option

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 25

French 18 hours
FREN 1103 French I
*FREN 1213 French II
*FREN 1313 French III
*FREN 1413 French IV
*FREN 2113 Intermediate French I
*FREN 2213 Intermediate French II

Controlled Electives Credit Hours: 7
*FREN 1001 French for Communication I
*FREN 1031 French Pronunciation
*FREN 1201 French for Communication II
*FREN 1301 French for Communication III
*FREN 1401 French for Communication IV
FREN 2033 French Literature in Translation
FREN 2041 French - Introduction to the Arts
FREN 2071 French History and Geography Introduction
*FREN 2121 Intermediate French Communication
*FREN 2143 French Civilization and Culture
*FREN 2263 Intermediate French Literature
*FREN 2320 International Work and/or Study Seminar
*FREN 2330 French International Seminar and/or Field Studies
*FREN 2413 French Translating
FREN 2421 French Culture Comparisons
*FREN 2433 French Cinema and Conversation
*FREN 2523 Intermediate French Grammar and Composition
*FREN 2533 Advanced French Conversation

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

A native speaker of French (high school courses conducted principally in French) cannot earn Associate of Arts degree credit toward graduation for French courses below the 2000 level.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
INTERNATIONAL LANGUAGE STUDIES

German Certificate Option

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 25

German 18 hours
GRMN 1103 German I
*GRMN 1213 German II
*GRMN 1313 German III
*GRMN 1413 German IV
*GRMN 2113 Intermediate German I
*GRMN 2213 Intermediate German II

Controlled Electives Credit Hours: 7
*GRMN 1001 German for Communication I
*GRMN 1031 German Pronunciation
*GRMN 1201 German for Communication II
*GRMN 1301 German for Communication III
*GRMN 1401 German for Communication IV
GRMN 2033 German Literature in Translation
GRMN 2041 German - Introduction to the Arts
GRMN 2071 German History and Geography Introduction
*GRMN 2121 Intermediate German Communication
*GRMN 2143 German Civilization and Culture
*GRMN 2263 Intermediate German Literature
*GRMN 2320 International Work and/or Study Seminar
*GRMN 2330 German International Seminar and/or Field Studies
*GRMN 2413 German Translating
GRMN 2421 German Culture Comparisons
*GRMN 2523 Intermediate German Grammar and Composition
*GRMN 2533 Advanced German Conversation

One additional language, 1-3 Credit Hours
(May be Arabic, Chinese, French, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish, or Language Instructional Technology.)

Total Credit Hours: 25
*Course has prerequisite (See course description section of catalog).

ITALIAN

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list.

Specialized Course Requirements Credit Hours: 23

Italian 18 hours
ITAL 1103 Italian I
*ITAL 1213 Italian II
*ITAL 1313 Italian III
*ITAL 1413 Italian IV
*ITAL 2113 Intermediate Italian I
*ITAL 2213 Intermediate Italian II

One additional language, 1-3 Credit Hours
(May be Arabic, Chinese, French, Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish, or Language Instructional Technology.)

Total Credit Hours: 25
*Course has prerequisite (See course description section of catalog).
**ITALIAN 5 hours**

*ITAL 1001 Italian for Communication I  
*ITAL 1201 Italian for Communication II  
*ITAL 1301 Italian for Communication III  
*ITAL 1401 Italian for Communication IV  
ITAL 2033 Italian Literature in Translation  
ITAL 2041 Italian - Introduction to the Arts  
ITAL 2071 Italian History and Geography Introduction  
*ITAL 2121 Intermediate Italian Communication  
*ITAL 2143 Italian Civilization and Culture  
*ITAL 2263 Intermediate Italian Literature  
*ITAL 2320 International Work and/or Study Seminar  
*ITAL 2330 Italian International Seminar and/or Field Studies  
*ITAL 2413 Italian Translating  
ITAL 2421 Italian Culture Comparisons  
ITAL 2433 Italian Film/Literature  
*ITAL 2523 Intermediate Italian Grammar and Composition  
*ITAL 2533 Advanced Italian Conversation

**Total Credit Hours: 60**

*Course has prerequisite (See course description section of catalog).

A native speaker of Italian (high school courses conducted principally in Italian) cannot earn Associate of Arts degree credit toward graduation for Italian courses below the 2000 level.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

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**INTERNATIONAL LANGUAGE STUDIES**

**Italian Certificate Option**

**Degree Awarded: Certificate of Achievement**

**Certificate Requirements Credit Hours: 20**

**Italian 15 hours**

ITAL 1103 Italian I  
*ITAL 1213 Italian II  
*ITAL 1313 Italian III  
*ITAL 1413 Italian IV  
*ITAL 2113 Intermediate Italian I

**Controlled Electives Credit Hours: 5**

*ITAL 1001 Italian for Communication I  
*ITAL 1201 Italian for Communication II  
*ITAL 1301 Italian for Communication III  
*ITAL 1401 Italian for Communication IV  
ITAL 2033 Italian Literature in Translation  
ITAL 2041 Italian - Introduction to the Arts  
ITAL 2071 Italian History and Geography Introduction  
*ITAL 2121 Intermediate Italian Communication  
*ITAL 2143 Italian Civilization and Culture  
*ITAL 2213 Intermediate Italian II  
*ITAL 2263 Intermediate Italian Literature  
*ITAL 2320 International Work and/or Study Seminar  
*ITAL 2330 Italian International Seminar and/or Field Studies  
*ITAL 2413 Italian Translating  
ITAL 2421 Italian Culture Comparisons  
*ITAL 2433 Italian Film/Literature  
*ITAL 2523 Intermediate Italian Grammar and Composition  
*ITAL 2533 Advanced Italian Conversation

**Total Credit Hours: 20**

*Course has prerequisite (See course description section of catalog).

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**JAPANESE**

**Degree Awarded: Associate in Arts**

**General Education Requirements Credit Hours: 37**

See the General Education Requirements for the complete list.

**Foreign Language (3 hours Required Elective) and International (6 hours Recommended Elective) may be satisfied with 9 hours of additional Japanese Language.**

**Specialized Course Requirements Credit Hours: 23**

**Japanese 15 hours**

JAPN 1103 Japanese I  
*JAPN 1213 Japanese II  
*JAPN 1313 Japanese III  
*JAPN 1413 Japanese IV  
*JAPN 2113 Intermediate Japanese

**Japanese 8 hours**

*JAPN 1001 Japanese for Communication I  
*JAPN 1201 Japanese for Communication II  
*JAPN 1301 Japanese for Communication III  
*JAPN 1401 Japanese for Communication IV  
JAPN 2033 Japanese Literature in Translation  
JAPN 2041 Japanese - Introduction to the Arts  
JAPN 2071 Japanese History and Geography Introduction  
*JAPN 2121 Intermediate Japanese Communications  
*JAPN 2143 Japanese Civilization and Culture  
*JAPN 2213 Intermediate Japanese II  
*JAPN 2320 International Work and/or Study Seminar  
*JAPN 2413 Japanese Translating I  
JAPN 2421 Japanese Culture Comparisons

**Total Credit Hours: 60**

*Course has prerequisite (See course description section of catalog).

A native speaker of Japanese (high school courses conducted principally in Japanese) cannot earn Associate of Arts degree credit toward graduation for Japanese courses below the 2000 level.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
INTERNATIONAL LANGUAGE STUDIES

Japanese Certificate Option

Degree Awarded: Certificate of Achievement
Certificate Requirements Credit Hours: 20

Japanese 15 hours
JAPN 1103 Japanese I
*JAPN 1213 Japanese II
*JAPN 1313 Japanese III
*JAPN 1413 Japanese IV
*JAPN 2113 Intermediate Japanese I

Controlled Electives Credit Hours: 5
*JAPN 1001 Japanese for Communication I
*JAPN 1201 Japanese for Communication II
*JAPN 1301 Japanese for Communication III
*JAPN 1401 Japanese for Communication IV
JAPN 2033 Japanese Literature in Translation
JAPN 2041 Japanese - Introduction to the Arts
JAPN 2071 Japanese History and Geography
*JAPN 2121 Intermediate Japanese
*JAPN 2143 Japanese Civilization and Culture
*JAPN 2213 Intermediate Japanese II
*JAPN 2320 International Work and/or Study Seminar
*JAPN 2413 Japanese Translating
JAPN 2421 Japanese Culture Comparisons

One additional language, 1-3 Credit Hours
(May be Arabic, Chinese, French, German, Greek, Hebrew, Italian, Latin, Portuguese, Russian, Spanish, or Language Instructional Technology.)

Total Credit Hours: 20
*Course has prerequisite (See course description section of catalog).

RUSSIAN

Degree Awarded: Associate in Arts
General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list. Foreign Language (3 hours required elective) and International (6 hours recommended elective) may be satisfied with 9 hours of additional Russian Language courses.

Specialized Course Requirements Credit Hours: 23

Russian 15 hours
RUSS 1103 Russian I
*RUSS 1213 Russian II
*RUSS 1313 Russian III
*RUSS 1413 Russian IV
*RUSS 2113 Intermediate Russian I

Russian 8 hours
*RUSS 1001 Russian for Communication I
RUSS 1031 Russian Pronunciation
RUSS 1061 Russian for Biblical Study
*RUSS 1201 Russian for Communication II
*RUSS 1301 Russian for Communication III
*RUSS 1401 Russian for Communication IV
*RUSS 2033 Russian Literature in Translation
RUSS 2041 Russian - Introduction to the Arts
RUSS 2071 Russian History and Geography Introduction
*RUSS 2143 Russian Civilization and Culture
*RUSS 2213 Intermediate Russian II
*RUSS 2320 International Work and/or Study Seminar
*RUSS 2413 Russian Translating
RUSS 2421 Russian Culture Comparisons
*RUSS 2523 Intermediate Russian Grammar and Composition

One additional language, 1-3 Credit Hours
(May be Arabic, Chinese, French, German, Greek, Hebrew, Japanese, Latin, Portuguese, Spanish, or Language Instructional Technology.)

Total Credit Hours: 20
*Course has prerequisite (See course description section of catalog).
SPANISH

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list. Foreign Language (3 hours required elective) and International (6 hours Recommended Elective) may be satisfied with 9 hours of additional Spanish Language courses.

Specialized Course Requirements Credit Hours: 23

Spanish 18 hours
SPAN 1103 Spanish I
*SPAN 1213 Spanish II
*SPAN 1313 Spanish III
*SPAN 1413 Spanish IV
*SPAN 2113 Intermediate Spanish
*SPAN 2213 Intermediate Spanish II
or
*SPAN 2523 International Spanish Grammar and Composition

Spanish 5 hours
*SPAN 1001 Spanish for Communication I
SPAN 1061 Spanish for Biblical Study
*SPAN 1201 Spanish for Communication II
*SPAN 1301 Spanish for Communication III
*SPAN 1401 Spanish for Communication IV
SPAN 2033 Spanish Literature in Translation
SPAN 2041 Spanish-Introduction to the Arts
SPAN 2071 Spanish-Mexican History and Geography Introduction
*SPAN 2121 Intermediate Spanish Communication
*SPAN 2143 Latin American Civilization and Culture
*SPAN 2263 Intermediate Spanish Literature
*SPAN 2320 International Work and/or Study Seminar
*SPAN 2330 Spanish International Seminar and/or Field Studies
*SPAN 2413 Translating Spanish to English
SPAN 2421 Spanish Culture Comparisons
*SPAN 2443 Interpreting Spanish to English
*SPAN 2453 Interpreting English to Spanish
*SPAN 2463 Courtroom Interpreting Skills Introduction
*SPAN 2473 Medical Interpreting Skills Introduction
*SPAN 2523 Intermediate Spanish Grammar and Composition
*SPAN 2533 Advanced Spanish Conversation
*SPAN 2543 Translating English to Spanish
*SPAN 2663 Spanish Service Learning

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog). A native speaker of Spanish (high school courses conducted principally in Spanish) cannot earn Associate Arts degree credit toward graduation for Spanish courses below the 2000 level. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 27 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

International Languages 3 hours

Psychology 3 hours

Controlled Electives Credit Hours: 6

Northeastern State University - Tahlequah Transfer Option

Program Description:
This program is designed for students who wish to acquire oral and written language proficiency, an awareness of the Spanish-speaking culture, and who have plans to transfer to a Northeastern State University- Tahlequah to complete a baccalaureate degree in Spanish or in Spanish Education.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 34
See the General Education Requirements for the complete list. General Education required electives are met in specialized course requirements.

Specialized Course Requirements Credit Hours: 21

Spanish 15 hours
^SPAN 1103 Spanish I
*^SPAN 1213 Spanish II
*SPAN 1313 Spanish III
*SPAN 1413 Spanish IV
and select one from the following
*SPAN 2113 Intermediate Spanish
*SPAN 2213 Intermediate Spanish II
*SPAN 2523 International Spanish Grammar and Composition

International Languages 3 hours

ARBC 1103 Arabic I
CHNS 1103 Chinese I
FREN 1103 French I
GRMN 1103 German I
GREE 1103 Greek I
ITAL 1103 Italian I
JAPN 1103 Japanese I
LATN 1103 Latin I
NAMS 1013 Cherokee Language I
PORT 1103 Portuguese I
RUSS 1103 Russian I

Psychology 3 hours

**PSYC 1113 Introduction to Psychology

Controlled Electives Credit Hours: 6

*SPAN 2113 Intermediate Spanish
*SPAN 2143 Latin American Civilization and Culture
*SPAN 2213 Intermediate Spanish II
*SPAN 2263 Intermediate Spanish Literature
*SPAN 2413 Translating Spanish to English
*SPAN 2443 Interpreting Spanish to English
*SPAN 2453 Interpreting English to Spanish
*SPAN 2463 Courtroom Interpreting Skills Introduction
*SPAN 2473 Medical Interpreting Skills Introduction
*SPAN 2523 Intermediate Spanish Grammar and Composition
*SPAN 2533 Advanced Spanish Conversation
*SPAN 2543 Translating English to Spanish
*SPAN 2660 Spanish Service Learning
*SPAN 2773 Spanish for Native Speakers

INTERNATIONAL LANGUAGE: Spanish
INTERNATIONAL LANGUAGE STUDIES

Spanish Certificate Option

Program Description:
This program provides an in-depth study of the spoken and written language and prepares students to use the Spanish language as a career skill. The courses are designed to emphasize acquisition of competency sufficient to communicate orally and in writing with a native speaker of the target language on a professional or work-related basis. TCC instructional methods infuse technology into the learning process, which increases access to resources for the language. Graduates find a variety of positions with government or social organizations and firms involved with speakers of the target language (translating, interpreting, investments, accounting, banking, education, publishing, manufacturing, sales, service, and travel). Courses may also be transferred to an Associate of Arts or Associate of Applied Science Degree.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 25

Spanish 18 hours
SPAN 1103 Spanish I
*SPAN 1213 Spanish II
*SPAN 1313 Spanish III
*SPAN 1413 Spanish IV
*SPAN 2113 Intermediate Spanish I
*SPAN 2213 Intermediate Spanish II
or
*SPAN 2523 Intermediate Spanish Grammar and Composition

Controlled Electives Credit Hours: 7
*SPAN 1001 Spanish for Communication I
SPAN 1031 Spanish Pronunciation
SPAN 1061 Spanish for Biblical Study
*SPAN 1201 Spanish for Communication II
*SPAN 1301 Spanish for Communication III
*SPAN 1401 Spanish for Communication IV
SPAN 2033 Spanish Literature in Translation
SPAN 2041 Spanish - Introduction to the Arts
SPAN 2071 Spanish-Mexican History and Geography Introduction
*SPAN 2121 Intermediate Spanish Communication
*SPAN 2143 Latin American Civilization and Culture
*SPAN 2263 Intermediate Spanish Literature
*SPAN 2320 International Work and/or Study Seminar
*SPAN 2330 Spanish International Seminar and/or Field Studies
*SPAN 2413 Translating Spanish to English
SPAN 2421 Spanish Culture Comparisons
*SPAN 2443 Interpreting Spanish to English
*SPAN 2453 Interpreting English to Spanish
*SPAN 2523 Intermediate Spanish Grammar and Composition
*SPAN 2533 Advanced Spanish Conversation
*SPAN 2543 Translating English to Spanish

One additional language, 1-3 Credit Hours
(May be Arabic, Chinese, French, German, Greek, Hebrew, Japanese, Latin, Portuguese, or Language Instructional Technology.)

Total Credit Hours: 25
*Course has prerequisite (See course description section of catalog).

INTERNATIONAL LANGUAGE STUDIES

Spanish Interpreting Skills-Certificate Option

Program Description:
This program provides an introduction to interpreting skills for the courtroom or medical areas. Courses are designed to emphasize acquisition of speaking competency sufficient to communicate fluently (Spanish to English and English to Spanish) and to provide communication assistance between non-Spanish speaking medical personnel and non-English speaking patients with legal or medical groups.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 21

Spanish Credit Hours: 18
*SPAN 1313 Spanish III
*SPAN 1413 Spanish IV
*SPAN 2443 Interpreting Spanish to English
*SPAN 2453 Interpreting English to Spanish
and select one of the following:
*SPAN 2113 Intermediate Spanish I
*SPAN 2213 Intermediate Spanish II
*SPAN 2523 Spanish Grammar and Composition
and select one of the following:
*SPAN 2463 Courtroom Interpreting Skills Introduction
*SPAN 2473 Medical Interpreting Skills Introduction

Controlled Electives Credit Hours: 3
*SPAN 2121 Intermediate Spanish Communication
*SPAN 2143 Latin America Civilization and Culture
*SPAN 2421 Spanish Culture Comparisons
*SPAN 2533 Advanced Spanish Conversation
•SPAN 2661-3 Spanish Service Learning

Total Credit Hours: 21
*Course has prerequisite (See course description section of catalog)

INTERNATIONAL LANGUAGE STUDIES

Spanish Translating Skills-Certificate Option

Program Description:
This program provides an introduction to translating skills. Courses are designed to emphasize usage of language competency for written translation purposes (Spanish to English and English to Spanish). Holders of the certificate find a variety of opportunities in business and industry and social service areas.

Degree Awarded: Certificate of Achievement

Total Credit Hours: 25
*Course has prerequisite (See course description section of catalog)
Certificate Requirements Credit Hours: 21
Spanish Credit Hours: 18
*SPAN 1313 Spanish III
*SPAN 1413 Spanish IV
*SPAN 2113 Intermediate Spanish I
*SPAN 2413 Translating Spanish to English
*SPAN 2543 Translating English to Spanish
and select one of the following:
*SPAN 2213 Intermediate Spanish II
*SPAN 2523 Spanish Grammar and Composition

Controlled Electives Credit Hours: 3
*SPAN 2321-3 International Work and/or Study Seminar
*SPAN 2331-3 Spanish International Seminar and/or Field Studies
*SPAN 2143 Latin American Civilization and Culture

Total Credit Hours: 21
*Course has prerequisite (See course description section of catalog)

For More Information Contact:
Counseling Centers
Metro: 918-595-7151 • Northeast: 918-595-7527

AMERICAN STUDIES

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in American Studies may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 25
Additional general education requirements met in specialized course requirements.

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 3 hours
HUMN 2553 American Humanities

Mathematics 3 hours
*MATH 1513 College Algebra

Social Sciences 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Science 7 hours
Seven credit hours of science (one course must be a laboratory science) from the General Education Requirements list.

Specialized Course Requirements Credit Hours: 21
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865
RELG 2233 Religion in America
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Select one of the following courses on minorities in America:
*ENGL 2893 Minority Literature
HIST 2333 African-American History
HIST 2343 Native American History
(Same course as NAMS 2343 Native American Histories)
SOCI 2143 Minorities in America

Select one of the following courses on American society:
HIST 2043 Contemporary Affairs
SOCI 2113 Social Problems in America
PHIL 2143 Introduction to Social and Political Philosophy
POLS 2023 Introduction to American Politics
*SOCI 2013 Marriage and Family
NAMS 2513 Introduction to Native American Law

Note: Courses in Native American Studies have not yet been approved for transfer as part of the 2+2 program with Oklahoma State University.

Required Electives Credit Hours: 9
Any course not taken from the list of specialized course requirements may be taken as a required elective) Foreign Language through Level IV. Spanish is recommended. (Students planning to transfer to OSU should meet the language requirement in the associate degree program.)
HIST 1033 Oklahoma History
HIST 1073 Twentieth Century World History
HIST 2533 American Frontier
NAMS 2990 Selected Topics in Native American Studies

Note: Courses in Native American Studies have not yet been approved for transfer as part of the 2+2 program with Oklahoma State University.

Recommended Electives Credit Hours: 6
(Any course not taken from the list of required electives may be taken as a recommended elective.)
HIST 1063 Modern Western Civilization
HUMN 2223 Humanities II
RELG 1223 Religions of the World: The Western Tradition

Total Hours: 61
*Course has prerequisite (See course description section of catalog).
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
To receive an A.A. or A.S. degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
HISTORY

Program Description:
To function in a particular society or in an international setting, it is crucial to gain an accurate historical understanding of a present situation or past event through the study of history. The study of history involves verifying events and ideas, exploring the causes and effects of events and ideas, reconciling various interpretations of them, and making informed judgments about how to utilize differing views to assert a conclusion. In addition, it is essential that the historical reasoning process be expressed in a clear and effective style of written communication.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list.

Specialized Course Requirements Credit Hours: 12

History 12 hours
HIST 1033 History of Oklahoma
HIST 1044 Oklahoma History plus Research
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
HIST 1073 Twentieth Century World History
HIST 1083 Survey of English History to 1688
HIST 1093 Survey of English History 1688 to Present
HIST 1483 U.S. History 1492 to Civil War Era or
HIST 1493 U.S. History Civil War Era to Present
HIST 2023 Modern Eastern Civilization
HIST 2043 Contemporary Affairs
HIST 2163 Introduction to the History and Philosophy of Science
HIST 2223 Modern Latin American History
HIST 2333 African-American History
HIST 2343 Native American History
HIST 2533 Survey of the American Frontier

Recommended Electives Credit Hours: 12

Choose from at least three disciplines:
ECON 2013 Principles of Macroeconomics
*ENGL 2413 Introduction to Literature
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2653 Survey of British Literature from 1800
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865
GEOG 1014 Geography (Physical)
PHIL 1113 Introduction to Philosophy
PHIL 2163 Introduction to the History and Philosophy of Science
POLS 1023 Introduction to State and Local Government
*POLS 2013 Introduction to Comparative Governments
*POLS 2023 Introduction to American Politics
*POLS 2033 Introduction to Political Thought
*POLS 2133 Introduction to Public Administration
*POLS 2153 Introduction to the Constitution and Judicial Process
*POLS 2203 Introduction to International Relations
PSYC 1113 Introduction to Psychology
*PSYC 2053 Social Psychology
RELG 2233 Religion in America
SOCI 1113 Introduction to Sociology
SOCI 2123 Introduction to Cultural Anthropology

Total Credit Hours: 61

*Course has prerequisite (See course description section of catalog).
Proficiency in a foreign language is recommended.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
HUMANITIES

Program Description:
According to Socrates, “the unexamined life is not worth living.” By studying the humanities, students will have the opportunity to examine the diverse expressions of human experience. The humanities can be understood as the systematic study of the human artistic/creative response to the circumstances of existence. Human creativity in all cultures has manifested itself in a variety of forms including, but not limited to the academic disciplines of: painting, sculpture, architecture, literature, poetry, drama, philosophy, music, dance, and film. Humanities courses approach this subject matter in a manner that encourages the cultivation of diverse cultural and analytical perspectives in an attempt to carefully reflect upon the wider implications of being human.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 31
See the General Education Requirements for complete list. Humanities requirements are met in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 21

Humanities 9 hours
HUMN 2113 Humanities I
HUMN 2223 Humanities II
HUMN 2553 American Humanities

Select 9 credit hours from the following:
HUMN 2333 Humanities: Literature and Film
HUMN 2443 Art of Film
HUMN 2663 Hollywood’s America
HUMN 2773 Popular Culture
HUMN 2883 Culture and Identity

Select 3 credit hours from the following:
HUMN 2613 International Film
GEOG 1043 Introduction to Cultural Geography
ASNS 2103 Survey of Asian Civilizations
AFRS 2713 Survey of African Civilizations
HIST 2223 Modern Latin American History
NAMS 2113 Native American Culture
NAMS 2213 Spiritualities of Native America
NAMS 2313 Introduction to Native American Literature, Drama, and Film
RELG/PHIL 1213 Religions of the World: Eastern Tradition
RELG/PHIL 1223 Religions of the World: Western Tradition

Controlled Electives Credit Hours: 6
Select any 6 credit hours from the following courses
ART 1053 Art History Survey I
ART 1063 Art History Survey II
ART 2053 Art History Survey IV
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2653 Survey of British Literature from 1800
*ENGL 2673 World Literature to 1700
*ENGL 2683 World Literature from 1700
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
MUSC 1113 Music Appreciation
PHIL 1113 Introduction to Philosophy
PHIL 2163 Introduction to the History and Philosophy of Science
RELG 1113 Introduction to Religious Studies
RELG 2243 Christian Ethics and Social Thought
RELG 2313 Religion in Film
SOCI 2123 Introduction to Cultural Anthropology
THEA 1093 Introduction to Theatre

Recommended Electives Credit Hours: 3
Select any additional 3 credit hours
Foreign Languages strongly suggested

Total Credit Hours: 61

*Course has prerequisite (See course description section of catalog).

Liberal Arts

General Emphasis

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 31
See the General Education Requirements for the complete list. Recommended electives are satisfied in specialized course requirements.

Specialized Course Requirements Credit Hours: 29

Humanities 9 hours
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Select 3 credit hours from the following:
HUMN 2663 Hollywood’s America
HUMN 2773 Popular Culture
HUMN 2883 Culture and Identity

Select 9 credit hours from the following:
HUMN 2333 Humanities: Literature and Film
HUMN 2443 Art of Film
HUMN 2883 Culture and Identity

Select 13 credit hours from the following:
HUMN 2613 International Film
GEOG 1043 Introduction to Cultural Geography
ASNS 2103 Survey of Asian Civilizations
AFRS 2713 Survey of African Civilizations
HIST 2223 Modern Latin American History
NAMS 2113 Native American Culture
NAMS 2213 Spiritualities of Native America
NAMS 2313 Introduction to Native American Literature, Drama, and Film
RELG/PHIL 1213 Religions of the World: Eastern Tradition
RELG/PHIL 1223 Religions of the World: Western Tradition

Controlled Electives Credit Hours: 6
Select any 6 credit hours from the following courses
ART 1053 Art History Survey I
ART 1063 Art History Survey II
ART 2053 Art History Survey IV
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2653 Survey of British Literature from 1800
*ENGL 2673 World Literature to 1700
*ENGL 2683 World Literature from 1700
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
MUSC 1113 Music Appreciation
PHIL 1113 Introduction to Philosophy
PHIL 2163 Introduction to the History and Philosophy of Science
RELG 1113 Introduction to Religious Studies
RELG 2243 Christian Ethics and Social Thought
RELG 2313 Religion in Film
SOCI 2123 Introduction to Cultural Anthropology
THEA 1093 Introduction to Theatre

Recommended Electives Credit Hours: 3
Select any additional 3 credit hours
Foreign Languages strongly suggested

Total Credit Hours: 60

*Course has prerequisite (See course description section of catalog).

Film Emphasis

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 31
See the General Education Requirements for the complete list. Recommended electives are satisfied in specialized course requirements.

Specialized Course Requirements Credit Hours: 29

Humanities 9 hours
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Select 3 credit hours from the following:
HUMN 2553 American Humanities
HUMN 2663 Hollywood’s America
HUMN 2773 Popular Culture
HUMN 2883 Culture and Identity

Select 9 credit hours from the following:
HUMN 2333 Humanities: Literature and Film
HUMN 2443 Art of Film
HUMN 2883 Culture and Identity

Select 13 credit hours from the following:
HUMN 2613 International Film
GEOG 1043 Introduction to Cultural Geography
ASNS 2103 Survey of Asian Civilizations
AFRS 2713 Survey of African Civilizations
HIST 2223 Modern Latin American History
NAMS 2113 Native American Culture
NAMS 2213 Spiritualities of Native America
NAMS 2313 Introduction to Native American Literature, Drama, and Film
RELG/PHIL 1213 Religions of the World: Eastern Tradition
RELG/PHIL 1223 Religions of the World: Western Tradition

Controlled Electives Credit Hours: 6
Select any 6 credit hours from the following courses
ART 1053 Art History Survey I
ART 1063 Art History Survey II
ART 2053 Art History Survey IV
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2653 Survey of British Literature from 1800
*ENGL 2673 World Literature to 1700
*ENGL 2683 World Literature from 1700
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
MUSC 1113 Music Appreciation
PHIL 1113 Introduction to Philosophy
PHIL 2163 Introduction to the History and Philosophy of Science
RELG 1113 Introduction to Religious Studies
RELG 2243 Christian Ethics and Social Thought
RELG 2313 Religion in Film
SOCI 2123 Introduction to Cultural Anthropology
THEA 1093 Introduction to Theatre

Recommended Electives Credit Hours: 3
Select any additional 3 credit hours
Foreign Languages strongly suggested

Total Credit Hours: 60

*Course has prerequisite (See course description section of catalog).
General Education Requirements Credit Hours: 31
See the General Education Requirements for the complete list. Recommended electives are satisfied in specialized course requirements.

Specialized Course Requirements Credit Hours: 33

Art 3 hours
ART 1113 Art Appreciation
or
ART 1063 Art History Survey I

Computer Sciences 3 hours
CSCI 1203 Computer Concepts and Applications

Filmmaking 9 hours
ART 2813 Filmmaking I
*ART 2823 Film Internship, Filmmaking II
ART 2913 Film/Video History Analysis I

Humanities 9 hours
HUMN 2333 Film and Literature
HUMN 2443 Art of Film
HUMN 2663 Hollywood’s America

Theatre 6 hours
THEA 1053 Acting I
THEA 2453 Scriptwriting

Recommended Electives Credit Hours: 0-3
*ART 1123 Drawing I
ART 2853 Photography
HUMN 2613 International Film
RELG 2313 Religion in Film
Any Foreign Language

Total Credit Hours: 61-64
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

LIBERAL ARTS
International Emphasis

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Arts

For More Information Contact:
Liberal Arts Divisions: Metro: (918) 595-7118 Northeast: (918) 595-7494 Southeast: (918) 595-7780 West: (918) 595-8079
Counseling Centers: Metro: (918) 595-7151 Northeast: (918) 595-7527 Southeast: (918) 595-7651 West: (918) 595-8176
General Education Requirements Credit Hours: 31
Recommended electives are satisfied in specialized course requirements.

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Mathematics 3 hours
*MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry
*MATH 1715 College Algebra and Trigonometry
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II

Science 7 hours
One course must be a laboratory science
BIOL 1114 General Biology for Non-Majors
BIOL 1383 Nutrition
*BIOL 1404 General Botany
*BIOL 1604 Zoology
*BIOL 2154 Human Physiology
*BIOL 2164 Microbiology
*CHEM 1114 Principles of Chemistry
GEOL 1014 General Geology (Physical)
GEOL 1024 General Geology (Historical)
GEOG 1014 Geography (Physical)
GEOG 1043 Introduction to Cultural Geography
GEOG 2013 Meteorology
*PHYS 1114 General Physics I
*PHSC 1114 General Physical Science

Social Science 6 hours
HIST 1493 U.S. History Civil War Era to Present
POLS 1113 American Federal Government

Required Electives Credit Hours: 3
Art 1113 Art Appreciation
MUSC 1113 Music Appreciation
SOCI 2123 Introduction to Cultural Anthropology

Specialized Course Requirements Credit Hours: 30

Economics 3 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics
ECON 2123 International Economic Issues

Foreign Language 6 hours
**(Same language)

Geography 3 hours
GEOG 1023 World Geography (Economic)
GEOG 1043 Introduction to Cultural Geography
GEOG 2033 World Regional Geography

History 3 hours
HIST 1063 Modern Western Civilization
HIST 1075 Twentieth Century World History
HIST 2023 Modern Eastern Civilization
HIST 2043 Contemporary Affairs
HIST 2223 Modern Latin American History
HIST 2333 African American History

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
Philosophy/Religion 3 hours
PHIL/RELG 1213 Religions of the World: The Eastern Tradition
PHIL/RELG 1223 Religions of the World: The Western Tradition

Political Science 3 hours
*POLS 2013 Introduction to Comparative Governments
*POLS 2203 Introduction to International Relations

Controlled Electives 9 hours
select one from the following:
CSCI 1203 Computer Concepts and Applications
*ENGL 2673 Survey of World Literature to 1700
*ENGL 2683 Survey of World Literature from 1700
SPCH 2053 Intercultural Communication

and select two from the following:
AFRS 2713 Survey of African Civilization
ASNS 1103 Asian Philosophy and Culture
BIOL 2123 Human Ecology
HUMN 2163 International Film
NAMS 2113 Native American Cultures

Total Credit Hours: 61

*Course has prerequisite (See course description section of catalog).
**Check catalog for advanced credit. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

LIBERAL ARTS
Native American Emphasis

Program Description:
This emphasis is designed to meet the educational needs of both Native American and non-Native American students. Native American Studies (NAMS) courses focus upon the diverse world-views expressed in Native American cultures, spiritualities, histories, oral traditions, and literatures. The suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Arts

For More Information Contact:
Humanities/Native American Studies Program (918) 595-8210
Liberal Arts Division: West (918) 595-8079
Counseling Center: West (918) 595-8176

General Education Requirements Credit Hours: 28

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
GEOG 1043 Introduction to Cultural Geography
and select one of the following:
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Mathematics 3 hours
*MATH 1513 College Algebra
*MATH 1473 Mathematics for Critical Thinking

Science 7 hours
See the General Education Requirements page for complete list (one course must be a laboratory science).

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Additional 9 credit hours required and recommended electives are satisfied in specialized course requirements.

Specialized Course Requirements Credit Hours: 24
Select four courses in Native American Studies:
NAMS 1013 Cherokee Language I
NAMS 1023 Cherokee Language II
NAMS 2013 Images of Indians in American Culture
NAMS 2113 Native American Cultures
NAMS 2213 Native American Spiritualities
NAMS 2313 Native American Literature/Drama/Film
NAMS/HIST 2343 Native American History
NAMS 2513 Native American Law
NAMS 2613 Native American Art

Select four courses on American society:
(History course not taken from the list of Native American Studies courses may be substituted for a course on American society.)
HIST 1033 Oklahoma History
HIST 1483 U.S. History 1492 to Civil War Era
or
HIST 1493 U.S. History Civil War Era to Present
HIST 2533 American Frontier
HUMN 2553 American Humanities
HUMN 2663 Hollywood's America
HUMN 2773 American Popular Culture
HUMN 2883 Art and Identity: Cultural Encounters in America
RELG 2233 Religion in America
SOCI 2113 Social Problems In America
SOCI 2143 Minorities in America

Recommended Electives Credit Hours: 9
(Any course not taken from the list of General Education Requirements or the lists of Specialized Course Requirements may be taken as an elective.)
ART 1113 Art Appreciation
CSCI 1203 Computer Concepts and Applications
GEOG 2153 Human Ecology
HORT 1303 Principles of Horticulture
HORT 1343 Plant Identification
HUMN 2113 Humanities I or
HUMN 2223 Humanities II
RELG 1113 Introduction to Religious Studies
RELG/SOCI 2173 Religion and Society
SOCI 2123 Introduction to Cultural Anthropology
SPCH 2053 Intercultural Communication

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
PHILOSOPHY

Program Description:
Philosophy seeks answers to fundamental questions such as: How do I know this to be true? What kind of life should a human being live? Is there such a thing as religious or scientific truth? What is the world ultimately like? Philosophy attempts to develop and use critical methods; that is, to develop standards of logical thinking as opposed to emotional reaction.

Philosophy, then, seeks to develop analytical skills that will be useful in every aspect of life as well as enriching and fulfilling to the individual.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 31
See the General Education Requirements for the complete list. Humanities requirement is satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 15

Philosophy 15 hours
PHIL 1113 Introduction to Philosophy
PHIL 1133 Philosophy in Literature
PHIL 1143 Introduction to Ethics: Business Issues
PHIL 1213 Religions of the World: The Eastern Tradition
PHIL 1223 Religions of the World: The Western Tradition
PHIL 2113 Logic
PHIL 2133 Introduction to Ethical Thinking
PHIL 2143 Introduction to Social and Political Philosophy
PHIL 2153 Medical Ethics
PHIL 2163 Introduction to the History and Philosophy of Science
PHIL 2173 Introduction to the Philosophy of Religion
PHIL 2203 Symbolic Logic

Recommended Electives Credit Hours: 15
*ENGL 2413 Introduction to Literature
HIST 1053 Ancient and Medieval Western Civilization
*POLS 2033 Introduction to American Politics
PSYC 1023 Psychology of Personal Adjustment
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America
SOCI 2123 Introduction to Cultural Anthropology

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog). Proficiency in a foreign language is recommended. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

POLITICAL SCIENCE

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Political Science may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list.

Specialized Course Requirements Credit Hours: 12
*POLS 2013 Introduction to Comparative Governments
*POLS 2023 Introduction to American Politics
*POLS 2033 Introduction to Political Thought
*POLS 2103 Introduction to State and Local Government
*POLS 2133 Introduction to Public Administration
*POLS 2153 Introduction to the Constitution and Judicial Process
*POLS 2203 Introduction to International Relations

Recommended Electives Credit Hours: 12
Choose from at least three different disciplines.
CSCI 1203 Computer Concepts and Applications
ECON 2013 Principles of Macroeconomics
GEOG 1023 World Geography (Economic)
HIST 1033 History of Oklahoma
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present
HIST 2043 Contemporary Affairs
PHIL 1113 Introduction to Philosophy
PHIL 2163 Introduction to the History and Philosophy of Science
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America
*SOCI 2223 Behavioral Statistics

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog). Proficiency in a foreign language is recommended. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
PSYCHOLOGY

Program Description:
Psychology is the science of behavior and mental processes. Students investigate such topics as personality theories, social psychology, psychological disorders, motivation, learning, physiology, memory and cognition. Through this program, students will explore the complexity of the human experience through all stages of human development.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list.

Specialized Course Requirements Credit Hours: 15

Psychology 15 hours
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
*PSYC 2023 Developmental Psychology
*PSYC 2053 Social Psychology
PSYC 2123 Leadership Development
PSYC 2143 Guided Activities in Service Learning
*PSYC 2193 Personality Theories
*PSYC 2203 Mind and Behavior
*PSYC 2213 Brain and Behavior
*PSYC 2223 Behavioral Statistics
PSYC 2313 Psychology and Law
*PSYC 2323 Conflict Resolution
PSYC 2523 Child Psychology
*PSYC 2533 Adolescent Psychology
*PSYC 2613 Adult Psychology
*PSYC 2633 Industrial and Organizational Psychology
*PSYC 2713 Aging and Behavior
*PSYC 2813 Human Sexuality

Recommended Electives Credit Hours: 9
CSCI 1203 Computer Concepts and Applications
*MATH 1513 College Algebra
PHIL 1113 Introduction to Philosophy
PHIL 2163 Introduction to the History and Philosophy of Science
*PSYC 2130 Crisis Intervention and Experience
SOCI 1113 Introduction to Sociology
*SOCI 2013 Marriage and Family

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
Proficiency in a foreign language is recommended.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

RELIGIOUS STUDIES

Program Description:
Religion is one of the primary social activities of humankind. Its study involves a comparative understanding of the various ways different peoples, across time and space, have developed their religious ideas, values, systems, beliefs, rituals, and traditions in response to fundamental questions of human existence. Religious Studies offers a rigorous, systematic, and objective intellectual inquiry into various aspects of religions, their adherents and world views, their goals and expressions. It employs a wide variety of approaches and methods in order to understand the role of religion in human experience and thought. Courses in Religious Studies are for majors and for those meeting Humanities credit requirements. They are designed to be non-technical and to appeal to a broad range of interests.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 31
See the General Education Requirements for the complete list. Humanities requirement is satisfied in Specialized Course Requirements.

Course Requirements Credit Hours: 24
Religious Studies 12 hours
RELG 1113 Introduction to Religious Studies
and any three of the following:
RELG 1213 Religions of the World: The Eastern Tradition
RELG 1223 Religions of the World: The Western Tradition
RELG 2113 Old Testament
RELG 2123 New Testament

Required Electives 12 hours
Any course not selected from above
PHIL 2173 Introduction to the Philosophy of Religion
RELG/SOCI 2173 Religion and Society
RELG 2233 Religion in America
RELG 2243 Christian Ethics and Social Thought
RELG 2313 Religion in Film

Recommended Electives Credit Hours: 6
General Emphasis
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2773 Survey of American Literature to 1865
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
HUMN 2113 Humanities I
HUMN 2223 Humanities II
PHIL 1113 Introduction to Philosophy
PHIL 1133 Philosophy in Literature
PHIL 2133 Introduction to Ethical Thinking
PSYC 1113 Introduction to Psychology
RELG 2330 Field Studies in Religion
SOCI 1113 Introduction to Sociology
SOCI 2123 Introduction to Cultural Anthropology

or
International Studies Emphasis
GREE 1023 Biblical Greek I
*GREE 1223 Biblical Greek II
HEBR 1023 Biblical Hebrew I
*HEBR 1223 Biblical Hebrew II
LATN 1103 Latin I
*LATN 1213 Latin II

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
SOCILOGY

Program Description:
Sociology is the study of social life, social change, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, and how people interact within these contexts. Since all human behavior is social, the subject matter of sociology ranges from the intimate family to the hostile mob, from organized crime to religious cults, from the divisions of race, gender and social class to the shared beliefs of a common culture, and from the sociology of work to the sociology of sports. Because sociology addresses the most challenging issues of our time, it is a rapidly expanding field whose potential is increasingly tapped by those who craft policies and create programs.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list.

Specialized Course Requirements Credit Hours: 15

Required 6 hours
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America

Choose at least three courses 9 hours
*SOCI 2013 Marriage and Family
*SOCI 2043 Juvenile Delinquency
*SOCI 2053 Social Psychology
*SOCI 2123 Introduction to Cultural Anthropology

Recommended Electives Credit Hours: 9
*CSCI 1203 Computer Concepts and Applications
ECON 2013 Principles of Macroeconomics
*ENGL 2883 Survey of American Literature from 1865
HIST 2043 Contemporary Affairs
HUMN 2223 Humanities II
PHIL 1113 Introduction to Philosophy
PHIL 2113 Logic
PHIL 2133 Introduction to Ethical Thinking
PHIL 2163 Introduction to the History and Philosophy of Science
*POLS 2033 Introduction to Political Thought
PSYC 1023 Psychology of Personal Adjustment
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
*SOCI 1073 Human Service Techniques
*SOCI 1130 Crisis Intervention and Experience
*SOCI 2243 Introduction to Social Work
SPCH 1013 Fundamentals of Listening

Total Credit Hours: 61

*Course has prerequisite (See course description section of catalog). Proficiency in a foreign language is recommended. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
ART

Program Description:
Throughout history, no culture has ever persisted without some form of art. The fine arts - painting, sculpture and architecture - express our culture. The applied arts touch an infinite list of things in our environment from packaging, magazines, web design, and television to interior design. A liberal education that does not include familiarity with the history and language of art is lacking. The primary purpose of TCC’s art program is to develop a basic historical, conceptual, and technical education in art. Believing that the artist’s success is dependent on both creative vision and technical expertise, the program encourages excellence, critical inquiry, and experimentation.

Degree Awarded: Associate in Arts

For More Information Contact:
Liberal Arts Division: Metro: (918) 595-7118
West: (918) 595-8079
Counseling Centers: Metro: (918) 595-7151
West: (918) 595-8176

Recommended Electives Credit Hours: 3
*ART 2530 Field Studies in Art
HIST 1053 Ancient and Medieval Western Civilization
HUMN 2113 Humanities I
HUMN 2223 Humanities II
MUSC 1113 Music Appreciation
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology
SOCI 2123 Introduction to Cultural Anthropology
THEA 1093 Introduction to Theatre

Specialized Course Requirements Credit Hours: 21

Art
Lecture 9 hours
ART 1053 Art History Survey I
*ART 2503 Professional Practice
and select one course from the following
ART 1063 Art History Survey II
ART 2053 Art History Survey IV

Studio 12 hours
ART 1013 Fundamentals of Art I
*ART 1023 Painting I
*ART 1033 Painting II
ART 1083 Fundamentals of Art II

*ART 1123 Drawing I
*ART 1133 Drawing II
*ART 2063 Watercolor I
*ART 2073 Watercolor II
*ART 2083 Sculpture I
*ART 2093 Sculpture II
*ART 2143 Figure Drawing I
*ART 2153 Figure Drawing II
*ART 2223 Printmaking I
*ART 2233 Printmaking II
*ART 2243 Serigraphy I
*ART 2253 Serigraphy II
*ART 2263 Introduction to Ceramics
*ART 2313 Jewelry I
*ART 2323 Jewelry II
*ART 2403 Illustration I
*ART 2413 Typography I
*ART 2423 Graphic Design I
ART 2853 Photography

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

Total Credit Hours: 61

*Course has prerequisite (See course description section of catalog).

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
MUSIC

Program Description:
This program is designed to create a solid musical foundation in our students enabling them to transfer into four-year colleges and universities to pursue a baccalaureate degree in music. The program is also an appropriate course of study for individuals preparing for one of the many careers in music which do not require a baccalaureate degree or for personal enrichment. Skill enhancement and depth are provided by course work in applied music performance ensembles, music theory, music literature, keyboard, computer music composition, and private lessons. Students have the opportunity to broaden the scope of their classroom education by participation in performance groups including the Concert Choir, Show Choir, Concert Band, Jazz Band, Orchestra, and chamber ensembles. The music degree program is supported by a substantial performing arts facility which includes a music recording studio, practice rooms, a MIDI keyboard laboratory, and choral and instrumental rehearsal halls. Most music programs are presented at the state-of-the-art VanTrease Performing Arts Center for Education.

Degree Awarded: Associate in Arts

For More Information Contact:
Performing Arts Division: Southeast: (918) 595-7752
TCC Theatre Office: Southeast: (918) 595-7733
Counseling Center: Southeast: (918) 595-7651

General Education Requirements Credit Hours: 28
See the General Education Requirements for the complete list. Recommended electives and required electives are satisfied in the Specialized course Requirements.

Specialized Course Requirements Credit Hours: 35-43

Performance Ensemble 4 hours
A music major must enroll in at least one of these each semester. Substitutions may be made only with Dean's approval.
*MUSC 1541 Orchestra
MUSC 1551 Concert Choir
*MUSC 1651 Concert Band

Applied Music Lessons 8 hours
*** MUSC 1200-1490 Private Lessons
*** MUSC 2200-2240 Private Lessons

Piano 0-8 hours
A music major must be proficient in or enrolled in:
MUSC 1612 Class Piano I
*MUSC 1622 Class Piano II
*MUSC 1632 Class Piano III
*MUSC 1642 Class Piano IV

Theory & History 23 hours
*MUSC 1013 Music Theory I
*MUSC 1023 Music Theory II
*MUSC 1062 Aural Theory I
*MUSC 1072 Aural Theory II
*MUSC 2013 Music Theory III
*MUSC 2023 Music Theory IV
*MUSC 2062 Aural Theory III
*MUSC 2072 Aural Theory IV
*MUSC 2133 Introduction to History and Literature of Music

Recommended Electives 0 hours
MUSC 1002 Fundamentals of Music
MUSC 1053 Recording Studio Techniques I
*MUSC 1142 Computer Music Techniques I
MUSC 1153 American Popular Music
MUSC 1171 Beginning Guitar
MUSC 1181 Percussion Class
MUSC 1512 Voice Class
*MUSC 1562 Musical Theatre
*MUSC 1661 Jazz Band
*MUSC 1711 Brass Ensemble
*MUSC 1721 Woodwind Ensemble
*MUSC 1731 Guitar Ensemble
*MUSC 1761 String Ensemble
*MUSC 1771 Percussion Ensemble
*MUSC 1781 Chamber Ensemble
*MUSC 1791 Jazz Combo
*MUSC 1801 Jazz Lab
MUSC 2161 Cello Choir
*MUSC 2181 Show Choir
*MUSC 2223 Recording Studio Techniques II
*MUSC 2333 Music Internship

Total Credit Hours: 63-71
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
*** Music majors at four-year colleges/universities are required to take 2 credit hours of private instruction per semester. Scholarships may be available. Please contact the music office at 595-8698. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

STAGE PRODUCTION TECHNOLOGY

Program Description:
This program is designed to prepare students for a career in Stage Production Technology. It also is designed for those students presently employed in the Stage Production field who desire advancement.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Performing Arts Division: Southeast: (918) 595-7752
TCC Theatre Office: Southeast: (918) 595-7733
Counseling Center: Southeast: (918) 595-7651

General Education Requirements Credit Hours: 19

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 4 hours
*MATH 1454 Technical Mathematics

Psychology 3 hours
*PSYC 1313 Human Relations
PSYC 1113 Introduction to Psychology
Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42

Computer Information Systems 3 hours
Select 3 credit hours from any Computer Information Systems (CSYS/CSCI) courses.

Theatre 39 hours
THEA 1033 Stagecraft I
*THEA 1043 Stagecraft II
THEA 1073 Entertainment Electrical Fundamentals
THEA 1093 Introduction to Theatre
THEA 1113 Theatre Graphics
THEA 1123 Introduction to Sound Reinforcement
THEA 1133 Costume Techniques I
THEA 1143 Introduction to Rigging & Fly Systems
THEA 2063 Fundamentals of Stage Lighting
THEA 2073 Introduction to Production Design
THEA 2233 Entertainment – Computer Aided Design
THEA 2253 Stage Management
*THEA 2273 Stage Production Technology Internship

Recommended Electives Credit Hours: 3
ART 1013 Fundamentals of Art I
ART 1083 Fundamentals of Art II
THEA 2013 Makeup I
*THEA 2133 Advanced Lighting for the Stage
*THEA 2153 Advanced Sound Reinforcement
THEA 2343 Introduction to Costume Design

Total Credit Hours: 64
*Course has prerequisite (See course description section of catalog).

STAGE PRODUCTION TECHNOLOGY
Costume Certificate

Program Description:
This program is designed to prepare students for a career in Stage Production Technology. It is also designed for those students presently employed in the Stage Production field who desire advancement.

Degree Awarded: Certificate of Achievement
Certificate Requirements Credit Hours: 33

Art 3 hours
ART 1013 Fundamentals of Art

Theatre 30 hours
THEA 1093 Introduction to Theatre
THEA 1113 Theatre Graphics
THEA 1133 Costume Techniques I
THEA 2013 Makeup I
*THEA 2043 Costume History
*THEA 2093 Makeup II
*THEA 2143 Costume Techniques II
*THEA 2233 Entertainment Computer Aided Design
*THEA 2273 Stage Production Technology Internship
THEA 2343 Introduction to Costume Design

Total Credit Hours: 33
*Course has prerequisite (See course description section of catalog).

STAGE PRODUCTION TECHNOLOGY
Entertainment Construction Certificate

Program Description:
This program is designed to prepare students for a career in Stage Production Technology. It is also designed for those students presently employed in the Stage Production field who desire advancement.

Degree Awarded: Certificate of Achievement
Certificate Requirements Credit Hours: 22

Mathematics 4 hours
*MATH 1454 Technical Mathematics

Theatre 18 hours
THEA 1033 Stagecraft I
THEA 1043 Stagecraft II
THEA 1093 Introduction to Theatre
THEA 1113 Theatre Graphics
THEA 1143 Introduction to Rigging Fly Systems
*THEA 2273 Stage Production Technology Internship

Total Credit Hours: 22
*Course has prerequisite (See course description section of catalog).

NEED A PLAN? LET CAREER SERVICES HELP.
Metro Campus: (918) 595-7109 • Northeast Campus: (918) 595-7527
Southeast Campus: (918) 595-2215 • West Campus: (918) 595-8176
www.tulsacc.edu/careerservices

VISUAL & PERFORMING ARTS: Stage Production Technology
### STAGE PRODUCTION TECHNOLOGY

#### Lighting Certificate

**Program Description:**
This program is designed to prepare students for a career in Stage Production Technology. It is also designed for those students presently employed in the Stage Production field who desire advancement.

**Degree Awarded:** Certificate of Achievement

**Certificate Requirements Credit Hours: 28**

- **Mathematics 4 hours**
  *MATH 1454 Technical Mathematics

- **Theatre 24 hours**
  THEA 1073 Entertainment Electrical Fundamentals
  THEA 1093 Introduction to Theatre
  THEA 1113 Theatre Graphics
  THEA 1143 Introduction to Rigging Fly Systems
  THEA 2063 Fundamentals of Stage Lighting
  *THEA 2133 Advanced Lighting for the Stage
  *THEA 2233 Entertainment Computer Aided Design
  *THEA 2273 Stage Production Technology Internship

**Total Credit Hours: 28**
*Course has prerequisite (See course description section of catalog).

### STAGE PRODUCTION TECHNOLOGY

#### Sound Certificate

**Program Description:**
This program is designed to prepare students for a career in Stage Production Technology. It is also designed for those students presently employed in the Stage Production field who desire advancement.

**Degree Awarded:** Certificate of Achievement

**Requirements Credit Hours: 28**

- **Mathematics 4 hours**
  *MATH 1454 Technical Mathematics

- **Theatre 24 hours**
  MUSC 1053 Recording Studio Techniques I
  THEA 1073 Entertainment Electrical Fundamentals
  THEA 1093 Introduction to Theatre
  THEA 1113 Theatre Graphics
  THEA 1123 Introduction to Sound Reinforcement
  THEA 1143 Introduction to Rigging Fly Systems
  *THEA 2153 Advanced Sound Reinforcement
  *THEA 2273 Stage Production Technology Internship

**Total Credit Hours: 28**
*Course has prerequisite (See course description section of catalog).

### STAGE PRODUCTION TECHNOLOGY

#### Rigging Certificate

**Program Description:**
This program is designed to prepare students for a career in Stage Production Technology. It is also designed for those students presently employed in the Stage Production field who desire advancement.

**Degree Awarded:** Certificate of Achievement

**Certificate Requirements Credit Hours: 27**

- **Theatre 27 hours**
  THEA 1033 Stagecraft I
  THEA 1073 Entertainment Electrical Fundamentals
  THEA 1093 Introduction to Theatre
  THEA 1113 Theatre Graphics
  THEA 1143 Introduction to Rigging Fly Systems
  THEA 2063 Fundamentals of Stage Lighting
  *THEA 2173 Arena Rigging
  *THEA 2273 Stage Production Technology Internship

**Total Credit Hours: 27**
*Course has prerequisite (See course description section of catalog).

### STAGE PRODUCTION TECHNOLOGY

#### Stage Management Certificate

**Program Description:**
This program is designed to prepare students for a career in Stage Production Technology. It is also designed for those students presently employed in the Stage Production field who desire advancement.

**Degree Awarded:** Certificate of Achievement

**Certificate Requirements Credit Hours: 27**

- **Business 3 hours**
  BUSN 2363 Supervisory Management

- **Psychology 3 hours**
  PSYC 1313 Human Relations

- **Speech 3 hours**
  SPCH 1113 Speech Communication I

- **Theatre 18 hours**
  THEA 1033 Stagecraft I
  THEA 1053 Acting I
  THEA 1093 Introduction to Theatre
  THEA 1113 Theatre Graphics
  THEA 2253 Stage Management
  *THEA 2273 Stage Production Technology Internship

**Total Credit Hours: 27**
*Course has prerequisite (See course description section of catalog).
Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Arts

For More Information Contact:
Performing Arts Division: Southeast: (918) 595-7752
TCC Theatre Office: (918) 595-7733
Counseling Center: Southeast: (918) 595-7651

General Education Requirements Credit Hours: 37
See the General Education Requirements for the complete list.

Specialized Course Requirements Credit Hours: 15
Theatre 15 hours
THEA 1033 Stagecraft I
THEA 1053 Acting I
THEA 1093 Introduction to Theatre
THEA 1133 Costume Techniques I
THEA 2063 Fundamentals of Stage Lighting

Required Electives: 9
*THEA 1043 Stagecraft II
THEA 1081 Theatre Practice I

Recommended Electives: 0-3 Hours
*ENGL 2543 Survey of British Literature to 1800
*ENGL 2653 Survey of British Literature from 1800
*ENGL 2773 Survey of American Literature to 1865
*ENGL 2883 Survey of American Literature from 1865
HIST 1053 Ancient and Medieval Western Civilization
HUMN 2113 Humanities I
HUMN 2223 Humanities II
MUSC 1113 Music Appreciation
MUSC 1153 American Popular Music
* MUSC 1731 Guitar Ensemble
* MUSC 1791 Jazz Combo
*THEA 1562 Musical Theatre

Total Credit Hours: 61-64
*Course has prerequisite (See course description of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
Business Areas of Study

**AA: Associate in Arts, university transfer degree • AS: Associate in Science, university transfer degree • AAS: Associate in Applied Science, workforce degree • CER: Certificate of Achievement**

**University transfer degree programs** include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

**Workforce development degree and certificate programs** are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

### Accounting

*Also see Business related fields AS degree*

- Accounting, NSU option, AS
- Accounting Assistant, CER
- Accounting Associate, AAS/CER
- Payroll Administrative option, CER

### Business Fields

**Business Related Fields of Concentration:**

- Accounting, AS
- Business Administration, AS
- Business Education, AS
- Economics, AS
- Management, AS

**Business Related Fields of Concentration Langston option:**

- Accounting, AS
- Business Administration, AS
- Economics, AS
- Management, AS

**Business, OSU option, AS**

**Business, AAS**

**Business, Administrative Careers, AAS/CER**

**General Administrative Careers, CER**

**Legal Administrative Careers, CER**

**Medical Administrative Careers, CER**

**Customer Account Representative (City of Tulsa option), AAS/CER**

**Business, Healthcare Business Operations, AAS/CER**

**Business, Healthcare Business Operations/Accounting, CER**

**Human Resources, AAS/CER**

**International Business, AS/CER**

**Interior Design**

**Management Information Systems, LU, AS**

**Management Information Systems, OSU, AS**

*(Paralegal, AA/AAS see: Community Services: Law, Public Safety and Corrections)*

**Technology, AAS**

### Hospitality & Tourism

**Business, Hospitality & Gaming Operations, AS/AAS**

**Hospitality & Gaming Operations Certificates:**

- Hospitality
- Gaming Operations/Protection
- Restaurant Management
Information Technology
Computer Information Systems (CSYS)
- CSYS, Langston University option, AS
- CSYS, Northeastern State University option, AS
- CSYS, Oklahoma State University option, AS
- CSYS, Information Assurance & Forensics, OSU-Okmulgee option, AAS
- CSYS, Business Application Professional, AAS/CER
- CSYS, Networking, AAS/CER
- CSYS, Programming, AAS/CER
- CSYS, System Support Technician, AAS/CER
- CSYS, Unix, AAS/CER
- CSYS, Web Development, AAS/CER
- CSYS, Computer User, CER
- CSYS, MCSE Windows 2000, CER

Computer Programming
- TPF, AAS
- TPF, CER

(Digital Media options, AAS/CER see Arts & Communications, Graphic Arts)

Information Technologies Convergence (ITCV)
- ITCV, Basics, CER
- ITCV, Essentials, CER
- ITCV, General, CER
- ITCV, Cisco Routing, AAS/CER
- ITCV, Information Security Essentials, CER
- ITCV, Information Security, AAS/CER
- ITCV, System Support, AAS/CER
- ITCV, Management, AAS/CER

(Management Information Systems see Business)

Management
Also see Business related fields AS degree
Management with options in:
- General Management, AAS/CER
- International Management, AAS/CER
- Management Internship, AAS/CER

Management Leadership Certificate

Marketing
Marketing, NSU, AS
Marketing, OSU, AS
Marketing, Apparel Design & Merchandising, OSU, AS
Marketing, AAS
Marketing, Disney Internship, AAS
Marketing, E-Business, AAS
Marketing, Customer Service, CER
Marketing, E-Business, CER
ACCOUNTING
Northeastern State University Transfer Option

Program Description
This program is designed to provide the student with fundamental skills, attitudes, and experience in Accounting: Financial, Managerial, Accounting Information System, and Payroll. Graduates of the program will be prepared to continue coursework toward a baccalaureate degree in any of the options within the Accounting program at Northeastern State University.

Degree Awarded: Associate in Science

For More Information Contact:
Business and Information Technology Divisions:
Metro (918) 595-7039, Northeast (918) 595-7439,
Southeast (918) 595-7639, West (918) 595-8033
Counseling Centers:
Metro: (918) 595-7151, Northeast: (918) 595-7527,
Southeast: (918) 595-7651, West: (918) 595-8176

General Education Requirements Credit Hours: 37-38

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Social Science 9 hours
GEOG 1043 Introduction to Cultural Geography
POLS 1113 American Federal Government
And select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Science 7-8 hours
Select one course from each of the following groups. At least one course must be a laboratory science.
*PHSC 1114 General Physical Science
*CHEM 1114 Principles of Chemistry
GEOL 1014 General Geology (Physical)
and
BIOL 1114 General Biology for Non-Majors
*BIOL 1604 Zoology
HORT 1303 Principles of Horticulture Technology

Humanities 6 hours
Select one course from each of the following groups.
HUMN 2113 Humanities I
HUMN 2223 Humanities II
PHIL 1113 Introduction to Philosophy
HIST 1053 Ancient Medieval Western History
and
ART 1113 Art Appreciation
MUSC 1113 Music Appreciation

Mathematics 3 hours
*MATH 1513 College Algebra

Required Electives 6 hours
Select one course from at least two of the following disciplines:
Psychology, Social Science, Foreign Language, Fine Arts...

Specialized Course Requirements Credit hours: 27

Accounting 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*ACCT 2393 Accounting Information Systems
*ACCT 2243 Payroll Administration

Economics 6 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

Speech 3 hours
SPCH 1113 Speech Communication I

Marketing 3 hours
MKTG 2423 Principles of Marketing

Total Credit Hours: 64-65
*Course has prerequisite (see course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

ACCOUNTING ASSISTANT CERTIFICATE

Program Description:
This program provides the student with a basic knowledge of Generally Accepted Accounting Principles (GAAP) and their application. The student will gain knowledge and skills for entry-level positions in various business related fields. The certificate provides training in accounting software and Excel to enhance skills necessary in the business world. This certificate requires a total of 30 credit hours of which 12 are in accounting.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 30

Accounting 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*ACCT 2393 Financial Accounting Applications
*ACCT 2523 Microcomputer Accounting Applications

Business/Computer Information Systems 9 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 2033 Excel
and select from the following:
BUSN 1123 Keyboarding I
Choose any one-hour Computer Information Systems (CSCI/CSYS) courses.

Business or Psychology 3 hours
BUSN 1313 Employee/Employer Relations
*BUSN 2213 Small Business Management
PSYC 1313 Human Relations
Specialized Course Requirements Credit Hours: 36

Accounting 21 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*ACCT 2233 Financial Accounting Applications
*ACCT 2313 Intermediate Accounting I
*ACCT 2323 Intermediate Accounting II
*ACCT 2333 Cost Accounting
*ACCT 2523 Microcomputer Accounting Applications

Business 6 hours
BUSN 2313 Business Law I
*BUSN 2213 Small Business Management

Computer Information Systems 9 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 2033 Excel
*CSCI 1641 Windows
and *select 2 one credit hour Computer Information Systems (CSCI/CSYS) courses.

or
*CSCI 2163 Windows Operating Systems

Controlled Electives Credit Hours: 6
*ACCT 2243 Payroll Administration
*ACCT 2303 Analyzing Financial Statements
*ACCT 2363 Income Tax I
*ACCT 2383 Governmental Accounting
*ACCT 2393 Accounting Information Systems
*ACCT 2403 Income Tax II
*ACCT 2443 Auditing
*ACCT 2463 - Fraud Examination
PHIL/BUSN 1143 Introduction to Ethics: Business Issues
*BUSN 2323 Business Law II
*BUSN 2333 Principles of Finance
BUSN 2363 Supervisory Management
*ECON 2123 International Economic Issues
*MGMT 2103 Workforce Development Internship
MGMT 2363 Principles of Management
or select one of the following:
BUSN 1313 Employee/Employer Relations
PSYC 1313 Human Relations

Total Credit Hours: 63

*Course has prerequisite (See course description section of catalog).
**Recommended to be taken during the first semester.

ACCOUNTING ASSOCIATE

Program Description:
This program is designed to provide the student with an effective working knowledge of the various accounting principles and accounting practices. The student will develop the skills necessary to communicate in a business environment utilizing Generally Accepted Accounting Principles (GAAP), double entry accounting, accounts receivable and accounts payable management, reconciling, budgeting, cost accounting, and compiling and analyzing reports. This program also provides training for those people who need accounting for effective and efficient business operations such as owners, managers, or employees. The degree requires a total of 63 credit hours of which 21 are in accounting.

Degree Awarded: Associate in Applied Science
ACCOUNTING ASSOCIATE Certificate

Program Description:
This program is designed to develop the marketable skills necessary to function in a variety of positions in the field of accounting. The program provides upgrade training for those people already employed in the area of accounting who desire advancement. This certificate requires a total of 30 credit hours of which 21 are in accounting.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 30

Accounting 21 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*ACCT 2233 Financial Accounting Applications
*ACCT 2313 Intermediate Accounting I
*ACCT 2323 Intermediate Accounting II
*ACCT 2333 Cost Accounting
*ACCT 2523 Microcomputer Accounting Applications

Computer Science 9 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 2033 Excel
*CSCI 1641 Windows
and *select 2 one credit hour Computer Information Systems (CSCI/CSYS) courses.
or
*CSCI 2163 Windows Operating Systems

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).

ACCOUNTING ASSOCIATE Microcomputer Accounting Certificate

Program Description:
This program is designed to provide the individual with an accounting overview and a working knowledge in accounting-related software currently used by a wide range of businesses. The program will provide the skills necessary for any owner, manager, or employee to become efficient in the application of Generally Accepted Accounting Principles (GAAP) and fundamental tax issues using general ledger software, Excel, and tax software. This certificate is designed to be a guide in the computer related accounting field for individuals working with small businesses. This certificate requires a total of 30 credit hours of which 19 are in accounting.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 30

Accounting 19 hours
ACCT 1211 Taxes for the Individual
ACCT 1221 Taxes for the Small Business
ACCT 1231 Pro Series Turbo Tax
ACCT 1241 Tax Research on the Internet
ACCT 1251 Payroll and Human Resources Applications

*ACCT 1411 Quickbooks Pro
*ACCT 1621 Introduction to Using Access Accounting
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*ACCT 2393 Accounting Information Systems
*ACCT 2523 Microcomputer Accounting Applications

Computer Information Systems 11 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 2033 Excel
*CSCI 2163 Windows Operating Systems
and select 1 credit hour each from the following groups:
*CSCI 1551 Introduction to Word
or
*CSCI 1561 Advanced Word
*CSCI 1571 Introduction to Access
or
*CSCI 1581 Advanced Database

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).

ACCOUNTING ASSOCIATE Payroll Administration Certificate

Program Description:
This program is designed to provide the student with the business skills required for employment as a payroll specialist and to introduce the student to the requirements for becoming a Certified Payroll Professional (CPP). The program is directed toward students who are preparing for employment in a small business as a full charge bookkeeper or accounting clerk and for those who are preparing for employment in the payroll department of a medium to large organization. This program is also directed toward students who have already received on-the-job training in the area of accounting for payroll, but would like to receive more formal instruction. This certificate requires a total of 18 credit hours of which 12 hours are in accounting.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 18

Accounting 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*ACCT 2243 Payroll Administration
*ACCT 2523 Microcomputer Accounting Applications

Computer Information Systems 6 hours
*CSCI 2033 Excel
and select three credit hours from the following:
CSCI 1203 Computer Concepts and Applications
or any CSYS/CSCI courses.

Total Credit Hours: 18
*Course has prerequisite (See course description section of catalog).
BUSINESS RELATED FIELDS OF CONCENTRATION
Accounting, Business Administration, Business, Education, Economics, and Management

Program Description:
This program is designed for students planning to transfer to senior colleges and universities with a business related field of concentration. The suggested curriculum for this program includes TCC degree requirements and courses generally completed in the first two years of a four-year business related curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Degree Awarded: Associate in Science

For More Information Contact:
Business and Information Technology Divisions:
Metro: (918) 595-7039, Northeast: (918) 595-7439, Southeast: (918) 595-7639, West: (918)595-8033
Counseling Centers:
Metro (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651, West: (918)595-8176

General Education Requirements Credit Hours: 37
See the General Education Requirements list for complete list.

Specialized Course Requirements Credit Hours: 24-27
Accounting 6 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

Business 3 hours
**BUSN 2313 Business Law I

Computer Information Systems 3 hours
select one course from the following:
*CSYS 2073 MS Office
CSCI 1203 Computer Concepts and Applications

Economics 6 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

Management 3 hours
**MGMT 2363 Principles of Management

Mathematics 3-6 hours
*MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry
*MATH 2193 Elementary Statistics
*MATH 2513 Finite Mathematics
*MATH 2523 Calculus for Business, Life, and Social Sciences

Total Credit Hours: 61-64
*Course has prerequisite (See course description section of catalog).
**Business Law I and Principles of Management may not transfer to some universities. Check with the Counseling Center before enrolling.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

BUSINESS RELATED FIELDS OF CONCENTRATION
Langston University Transfer Option
Accounting, Business Administration, Economics, and Management

Program Description:
This program is designed for students planning to transfer to Langston University-Tulsa with a business related field of concentration. The suggested curriculum for this program includes TCC degree requirements and courses generally completed in the first two years of a four-year business related curriculum. Students should consult the catalog of Langston University-Tulsa and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

General Education Requirements Credit Hours: 34
See the General Education Requirements list for complete list. Mathematics general education requirements met in specialized course requirements.

Specialized Course Requirements Credit Hours: 27**
Accounting 6 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

Business 3 hours
BUSN 2313 Business Law I

Computer Information Systems 3 hours
select one course from the following:
*CSYS 2073 MS Office
CSCI 1203 Computer Concepts and Applications

Economics 6 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

Management 3 hours
MGMT 2363 Principles of Management

Mathematics 6 hours
*MATH 1513 College Algebra
and select one course from the following
*MATH 2513 Finite Mathematics
*MATH 2523 Calculus for Business, Life, and Social Sciences

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
**All specialized courses require a letter grade of "C" or better.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

BUSINESS Fields: Business Related Fields of Concentration
### BUSINESS: BUSINESS FIELDS

#### BUSINESS

**Oklahoma State University-Tulsa Transfer Option**

**Program Description:**
This degree plan is for students planning to attend Oklahoma State University-Tulsa to complete a baccalaureate degree in business. Articulation agreements between Tulsa Community College and OSU-Tulsa provide for seamless transition toward a baccalaureate degree in the College of Business. The suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the OSU catalog for Undergraduate Programs & Requirements and carefully select courses that will meet the requirements for both the baccalaureate and associate degree programs.

**Degree Awarded:** Associate in Science

**For More Information Contact:**
Business and information technology Division:
Metro: (918) 595-7039  Northeast: (918) 595-7439
Southeast: (918) 595-7639  West: (918) 595-8033
Counseling Centers:
Metro: (918) 595-7151  Northeast: (918) 595-7527
Southeast: (918) 595-7651  West: (918) 595-8176

**General Education Requirements Credit Hours: 37**
See the General Education Requirements for the complete list. Recommend one course designated (I) as part of humanities requirement.

**Specialized Course Requirements Credit Hours: 24**

**Accounting 6 hours**
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

**Economics 6 hours**
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

**Math 6 hours**
*MATH 2193 Elementary Statistics
*MATH 2523 Calculus for Business, Life and Social Sciences

**Speech 3 hours**
SPCH 1113 Speech Communication I

**Computer Information Systems 3 hours**
CSCI 1203 Computer Concepts and Applications

**Total Credit Hours: 61**

*Course has prerequisite (see course description section of catalog). International Business majors must satisfy language proficiency equivalent to at least two full years of college level study as evidenced by:
a. 15 hours of study of a single modern foreign language with a minimum grade of “C,” or
b. 5 hours of intermediate or advanced modern foreign language courses with a minimum grade of “C,” or
c. Passing an approved Oklahoma State University examination. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

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#### BUSINESS

**Program Description**
This program provides exposure to a wide variety of business-related fields. It is designed for students who desire an overview of the field of business rather than an in-depth specialization in any one particular field. In addition, students should develop an appreciation for the social, political and economic environment in which business operates.

**Degree Awarded:** Associate in Applied Science

**General Education Requirements Credit Hours: 21**

**Economics 6 hours**
ECON 1353 Personal Finance
ECON 2013 Principles of Macroeconomics

**English 6 hours**
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following courses:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

**Philosophy/Psychology 3 hours**
**PHIL/BUSN 1143 Introduction to Ethics: Business Issues
PSYC 1313 Human Relations

**Social Science 6 hours**
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

**Specialized Course Requirements Credit Hours: 30**

**Accounting 6 hours**
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

**Business 12 hours**
BUSN 1053 Introduction to Business
*BUSN 2213 Small Business Management
BUSN 2313 Business Law I
and select 3 credit hours from the following:
BUSN 1353 Business Mathematics
*MATH 1513 College Algebra

**Computer Information Systems 6 hours**
Select 6 hours from any of the Computer Information Systems (CSCI/CSYS) courses.

**Management/Business 3 hours**
BUSN 2363 Supervisory Management
MGMT 2363 Principles of Management
MGMT 2123 Leadership Development

**Marketing 3 hours**
MKTG 2423 Principles of Marketing
Controlled Electives Credit Hours: 9
BUSN 1153 Intro to Hospitality Operations –Hotels, Restaurants, and Tourism
BUSN/SPCH 2053 Intercultural Communication
*BUSN 2333 Principles of Finance
BUSN 2343 Investments in Stocks and Bonds
CSYS 2563 Enterprise Security
*ECON 2023 Principles of Microeconomics
*ECON 2123 International Economic Issues
MKTG 2343 Customer Service
*MGMT 2353 Business Policy

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
**Students can enroll in either PHIL or BUSN if this option is chosen.

Program Description:
The Administrative Career degree course of study develops a wide variety of knowledge and skills necessary for today’s general, legal, and medical careers. Developing skills sets in accounting, business computers and digital media as well as general education classes will prepare the student for today’s workforce. Students may elect to earn the Administrative Career Associate in Applied Science degree entirely via electronic delivery. Courses available via electronic delivery, (telecourse, interactive television, and online) are designated as such in the TCC schedule and on the Distance Learning page at TCC’s website.

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 21
Economics 6 hours
ECON 1353 Personal Finance
**ECON 2013 Principles of Macroeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 2343 Business Communication

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Psychology 3 hours
PSYC 1313 Human Relations

Specialized Course Requirements Credit Hours: 27
Accounting 6 hours
ACCT 1003 Introduction to Accounting
ACCT 2213 Financial Accounting

Business 15 hours
**BUSN 1053 Introduction to Business
**BUSN 1353 Business Mathematics
*BUSN 2173 Skillbuilding and Document Processing

*BUSN 2183 Word Processing for Administrative Careers
*BUSN 2643 Procedures for Administrative Careers

Computer Information Systems 6 hours
**CSCI 1203 Computer Concepts and Applications
*CSCI 2033 Excel

Choose one (1) area of Focus
General Administrative Career Focus 12 Hours
BUSN 2313 Business Law I
*BUSN 2683 Administrative Careers internship
*CSYS 1153 Adobe Dreamweaver
*CSYS 2683 Adobe Indesign

Legal Administrative Career Focus 12 Hours
*CSYS 1153 Adobe Dreamweaver
*PLGL 1213 Introduction to the Legal System
*PLGL 2373 Computers in the Law
*PLGL 2813 Internship

Medical Administrative Career Focus 12 Hours
ALDH 1323 Medical Terminology
*BUSN 2683 Administrative Career Internship
*CSYS 1153 Adobe Dreamweaver
*MDAS 2243 Medical Office Finance and Management

Total Credit Hours: 60
*Course has prerequisite (See course description section of the catalog).
**Students who have earned the CPS rating may apply for Advanced Standing Credit in these approved courses. Application must be made in the Metro Campus Admissions Office with payment of advance standing credit hourly fees.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 12
Business 9 hours
**BUSN 1353 Business Mathematics
*BUSN 2173 Skillbuilding and Document Processing
*BUSN 2183 Word for the Administrative Professional

Computer Information Systems Hours: 3
*CSYS 2073 MS Office

Total Credit Hours: 12
*Course has prerequisite (See course description section of the catalog).
**Students who have earned the CPS rating may apply for advanced standing credit in these approved courses. Application must be made in the Metro Campus Admissions Office with payment of advance standing credit hourly fees.
BUSINESS, ADMINISTRATIVE CAREERS OPTION
Legal Administrative Career Certificate

Program Description:
This certificate is designed to prepare students for position in a legal office.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 18

Business 3 hours
BUSN 1353 Business Mathematics

Paralegal 9 hours
*PLGL 1213 Introduction to the Legal System
*PLGL 2373 Computers in the Law
*PLGL 2813 Internship

Computer Information Systems 6 hours
*CSYS 2073 MS Office
*CSYS 1153 Adobe Dreamweaver

Total Credit Hours: 18
*Course has prerequisite (see course section of the catalog)

BUSINESS, ADMINISTRATIVE CAREERS OPTION
Medical Administrative Career Certificate

Program Description:
This certificate is designed to prepare students for a position in a medical office.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 17

Allied Health 3 hours
ALDH 1323 Medical Terminology

Business 6 Hours
**BUSN 1353 Business Mathematics
*BUSN 2683 Administrative Careers Internship

Computer Information Systems 5 hours
CSYS 1022 MS Word for the Medical Documents
*CSYS 2073 MS Office

Medical Assistant 3 hours
*MDAS 2243 Medical Office Finance and Management

Total Credit Hours: 17
*Course has prerequisite (See course description section of the catalog).

**Students who have earned the CPS rating may apply for advanced standing credit in these approved courses. Application must be made in the Metro Campus Admissions Office with payment of advanced standing credit hourly fees.

BUSINESS CUSTOMER SERVICE REPRESENTATIVE (City of Tulsa Option)

Program Description:
This program has been designed to give City of Tulsa employees an opportunity to increase their knowledge and skills, become more productive, have opportunities for advancement within the organization and work toward completion of a college degree.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business Services Division: Metro: (918) 595-7039
Counseling Center: Metro: (918) 595-7151

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2343 Business Communication

Social Sciences 9 hours
POLS 1113 American Federal Government
*POLS 2043 Introduction to City Government
and select 3 credit hours from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 40
Accounting 3 hours
ACCT 2213 Financial Accounting

Business 31 hours
BUSN 1021 Working in Teams/Workplace Diversity
BUSN 1353 Business Mathematics
BUSN 2003 Credit Internship
BUSN 2023 Customer Support Internship
BUSN 2033 Customer Service/Personal Internship
BUSN 2043 Customer Service/Phone Center Internship
BUSN 2063 New Accounts-Taps Internship
BUSN 2103 Apportionment Billing
BUSN 2123 Billing
BUSN 2133 Stormwater
BUSN 2153 Systems Support

Computer Information Systems 3 hours
*CSYS 2073 MS Office

Marketing 3 hours
MKTG 2343 Customer Service

Recommended Electives 6 hours
HUM 2113 Humanities I
HUM 2223 Humanities II

Total Credit Hours: 64
*Course has prerequisite (See course description section of the catalog).
BUSINESS: BUSINESS FIELDS

BUSINESS
Customer Service Representative (City of Tulsa Option)

Customer Account Representative Certificate

Program Description:
This certificate has been designed to give City of Tulsa employees an opportunity to increase their knowledge and skills, become more productive and have opportunities for advancement within the organization.

Degree Awarded: Certificate of Achievement

Business 10 hours
BUSN 1021 Working in Teams/Workplace Diversity and any three of the following:
BUSN 2003 Credit Internship
BUSN 2013 Commercial Billing Internship
BUSN 2023 Customer Service Internship
BUSN 2033 Customer Service/Personal Internship
BUSN 2043 Customer Service/Phone Center Internship
BUSN 2063 New Accounts-Taps Internship
BUSN 2073 General Internship
BUSN 2083 Computer Orientation Internship
BUSN 2093 Non-Commercial Billing Internship

Computer Information Systems 2 hours
*CSCI 1551 Introduction to Word
*CSCI 1641 Windows

English 3 hours
*ENGL 1113 Freshman Composition I

Marketing 3 hours
MKTG 2343 Customer Service

Speech 3 hours
SPCH 2103 Interpersonal Communications

Total Credit Hours: 21
*Course has prerequisite (See course description section of the catalog).

BUSINESS
Customer Service Representative Certificate II

Program Description:
This certificate has been designed to give City of Tulsa employees an opportunity to increase their knowledge and skills, become more productive and have opportunities for advancement within the organization.

Degree Awarded: Certificate of Achievement

Business 12 hours
Any four of the following (Not completed in Certificate I):
BUSN 1353 Business Mathematics
BUSN 2003 Credit Internship
BUSN 2013 Commercial Billing Internship
BUSN 2023 Customer Service Internship
BUSN 2033 Customer Service/Personal Internship
BUSN 2043 Customer Service/Phone Center Internship
BUSN 2063 New Accounts-Taps Internship
BUSN 2073 General Internship

Computer Information Systems 2 hours
*CSCI 1531 Introduction to Excel
*CSCI 1561 Advanced Word

English 3 hours
*ENGL 2363 Advanced Business Communication

Social Sciences 3 hours
*POLS 2043 Introduction to City Government

Total Credit Hours: 20
*Course has prerequisite (See course description section of the catalog).

BUSINESS
Health Care Business Operations Option

Program Description:
This program is designed to prepare students for careers in health care business operations found in physician’s offices, managed practices, health insurance companies, hospitals, geriatric care facilities, public health entities, clinics, as well as many other health care-related organizations. Students will acquire the knowledge and skills necessary for employment and career building within the health care industry. Emphasis will be on health care business skills and accounting.

Degree Awarded: Associate in Applied Science

For more Information contact:
Business and Information Technology Division:
Metro: (918) 595-7039
Counseling Center: Metro: (918) 595-7151

General Education Requirements Credit Hours: 21
Economics 6 hours
ECON 1353 Personal Finance
ECON 2013 Principles of Macroeconomics

English 6 hours
ENGL 1113 Freshman Composition I
*ENGL 2343 Business Communications

Social Science 6 hours
POLS 1113 American Federal Government and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
*SPCH 2093 Business and Professional Speech

Specialized Course Requirements Credit Hours: 39
Accounting 9 Hours
ACCT 2213 Financial Accounting
and select 6 credit hours from the following:
ACCT 2533 Fundamentals of Health Care Accounting
*ACCT 2543 Management Accounting for Health Care Organizations
*ACCT 2553 Essentials of Cost Accounting in Health Care Organizations
### BUSINESS: BUSINESS FIELDS

#### Allied Health 3 Hours
ALDH 1323 Medical Terminology

#### Business 15 Hours
BUSN 1053 Introduction to Business
BUSN 1143 Introduction to Ethics-Business Issues
BUSN 1173 Introduction to Health Care Business Operations
BUSN 1353 Business Mathematics
*BUSN 2483 Health Care Law
BUSN 2313 Business Law I

#### Computer Information Systems 9 Hours
CSYS 1022 MS Word for Medical Documents
CSCI 1171 Introduction to Web Page Design
*CSCI 2033 Excel
and select one course from the following
^CSYS 2073 MS Office
CSCI 1203 Computer Concepts and Applications

#### Controlled Electives 3 hours
BUSN 2492 Health Care Business Operations Internship
*MDAS 2243 Medical Office Finance and Management
MKTG 2343 Customer Service
MKTG 2423 Principles of Marketing
PSYC 1313 Human Relations

**Total Credit Hours: 60**
*Course has prerequisite (See course description section of the catalog).
^CSYS 2073 recommended if student had Advanced Standings or has met Computer Proficiency Requirements.

### BUSINESS

#### Health Care Business Operations / Accounting Certificate

**Degree Awarded:** Certificate of Achievement

**Program Description:**
This certificate is designed to provide the graduate with basic accounting skills necessary to begin a career in health care organization accounting departments.

**Accounting 9 hours**
ACCT 2213 Financial Accounting
and select 6 credit hours from the following:
ACCT 2533 Fundamentals of Health Care Accounting
*ACCT 2543 Management Accounting for Health Care Organizations
*ACC 2553 Cost Accounting for Health Care Organizations

**Business 9 hours**
BUSN 1353 Business Mathematics
BUSN 1173 Introduction to Health Care Business Operations
*BUSN 2483 Health Care Law

#### Economics 6 hours
ECON 1353 Personal Finance
ECON 2013 Principles of Macroeconomics

**Total Credit Hours: 24**
*Course has prerequisite. (See course description section of the catalog)

### HUMAN RESOURCES

**Program Description:**
This program is designed to prepare students for a career in the human resources profession. Due to the fact that nearly all corporations have a human resources department, solid growth in this profession is predicted over the next ten years. This program is designed for both individuals starting out in human resources and those currently employed in human resources. Students gain a comprehensive knowledge in human resources along with the people skills greatly desired in today’s business world.

**Degree Awarded:** Associate in Applied Science

**For More Information Contact:**
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

**Allied Health 3 hours**
ALDH 1323 Medical Terminology

**Business 9 hours**
BUSN 1173 Introduction to Health Care Business Operations
BUSN 1353 Business Mathematics
*BUSN 2483 Health Care Law

**Computer Information Systems 5 hours**
CSCI 1203 Computer Concepts and Applications
CSYS 1022 MS Word for Medical Documents

**Economics 3 hours**
ECON 1353 Personal Finance

**Total Credit Hours: 20**
*Course has prerequisite. (See course description section of catalog)
Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42

Accounting 6 hours
ACCT 2213 Financial Accounting
*ACC 2223 Managerial Accounting

Business 6 hours
BUSN 1053 Introduction to Business
and select 3 credit hours from the following:
BUSN 2363 Supervisory Management
MGMT 2363 Principles of Management

Computer Information Systems 3 hours
**Select 3 hours from any of the Computer Information Systems (CSYS/CSCI).

Human Resources 24 hours
HRES 1313 Principles of Human Resources
*HRES 1333 Benefits Management
*HRES 1343 Compensation Management
*HRES 2313 Human Resource Law I
*HRES 2323 Employment and Evaluation Techniques
*HRES 2333 Employee and Labor Relations
*HRES 2343 Training and Development
*HRES 2353 Human Resource Law II

Controlled Electives 3 hours
*BUSN/PSYC 2633 Industrial and Organizational Psychology
*CSCI 2033 Excel
*ECON 2123 International Economic Issues
*ENGL 2343 Business Communication
*HSVC 1213 Basic Counseling Skills
*CSCI 2033 Excel
*MGMT 2103 Workforce Development Internship
PHED 2212 First Aid
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I
SPCH 2053 Intercultural Communication
SPCH 2103 Interpersonal Communication

HUMAN RESOURCES
Certificate Option

Program Description:
This program is designed to prepare students for a career in the human resources profession. Due to the solid growth in the human resources profession, this program is designed for both individuals wanting to enter the human resources profession, and those currently employed in human resources who desire advancement.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 30

Computer Information Systems 3 hours
**Select 3 credit hours from any of the Computer Information Systems courses.

Human Resources 24 hours
HRES 1313 Principles of Human Resources
*HRES 1333 Benefits Management
*HRES 1343 Compensation Management
*HRES 2313 Human Resource Law I
*HRES 2323 Employment and Evaluation Techniques
*HRES 2333 Employee and Labor Relations
*HRES 2343 Training and Development
*HRES 2353 Human Resource Law II

Controlled Electives Credit Hours: 3
*BUSN/PSYC 2633 Industrial and Organizational Psychology
*ECON 2123 International Economic Issues
*ENGL 2343 Business Communication
*HSVC 1213 Basic Counseling Skills
*CSCI 2033 Excel
*MGMT 2103 Workforce Development Internship
PHED 2212 First Aid
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I
SPCH 2053 Intercultural Communication
SPCH 2103 Interpersonal Communication

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).
**Spreadsheet experience is highly recommended.
NOTE: A student may substitute PHR (Professional in Human Resources) or SPHR (Senior Professional in Human Resources) certification for the course HRES 1313 Principles of Human Resources, if the student is current in the PHR or SPHR period of certification. (PHR or SPHR exams will not substitute for any other HRES courses).
NOTE: MGMT 2013 Workforce Development Internship is highly recommended for those with no employment in a Human Resources Department.
INTERIOR DESIGN

Program Description:
Upon completion of the program the student will have skills in the following areas: cost estimating, purchase orders, display, drafting for interiors including floor plans, space planning, elevations, isometrics, one and two point perspective sketching, delineation techniques, historic periods of design, knowledge of fire, life safety and handicap codes, knowledge of lighting, textiles, computer-aided design, and sales representation. These skills combined with field internships, market field trips, and customer service prepare students to enter the interior design field and combine their education with work experience.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

Semester plan available through faculty advisement.

General Education Requirements Credit Hours: 18

Art 3 hours
ART 1063 Survey of Art History II

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Psychology 3 hours
PSYC 1313 Human Relations

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42

Interior Design 36 hours
INTD 1313 Interior Design Orientation
*INTD 1333 Design I: Color
*INTD 1343 Drawing and Mechanical Drafting
*INTD 1353 Design II: Presentation
*INTD 1373 Color Graphics for Interior Designers
*INTD 1383 Lighting Concepts
INTD 1413 History of Interiors
*INTD 2313 Professional Practice
*INTD 2323 Design III
*INTD 2333 Design IV
*INTD 2383 Introduction to CAD for Interior Design
*INTD 2413 Advanced CAD for Interior Design

Marketing 6 hours
MKTG 1313 Sales and Negotiations
MKTG 2423 Principles of Marketing

Controlled Electives Credit Hours: 3
*BUSN 2213 Small Business Management
*** *INTD 2343 Field Application
**INTD 2403 Market Field Trip
MKTG 2343 Customer Service
*MKTG 2363 Consumer Behavior
SPCH 1113 Speech Communication I

Total Credit Hours: 63
*Course has prerequisite (See course description section of catalog).
**Course may be taken twice.
***These courses are highly recommended for students not employed in the field.

INTERIOR DESIGN Certificate

Program Description:
Upon completion of the Certificate of Achievement program the student will have skills in the following areas: cost estimating, purchase orders, floor plans, space planning, one and two point perspective sketching, delineation techniques, life safety and handicap codes, historic periods of design, lighting techniques, and sales presentation. These skills combined with work related experience will prepare the student for a career in interior design.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 36

Interior Design 27 hours
INTD 1313 Interior Design Orientation
*INTD 1333 Design I: Color
*INTD 1343 Drawing and Mechanical Drafting
*INTD 1383 Lighting Concepts
INTD 1413 History of Interiors
*INTD 2313 Professional Practice
*INTD 2323 Design III
*INTD 2333 Design IV
*INTD 2383 Introduction to CAD for Interior Design

Marketing 3 hours
MKTG 1313 Sales and Negotiations

Controlled Electives Credit Hours: 6
*INTD 1353 Design II Presentation
*INTD 1373 Color Graphics for Interior Designers
*** *INTD 2343 Field Application
**INTD 2403 Market Field Trip
MKTG 2423 Principles of Marketing

Total Credit Hours: 36
*Course has prerequisite (See course description section of catalog).
**Course may be taken twice.
***These courses are highly recommended for students not employed in the field.
INTERNATIONAL BUSINESS

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog for the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Business and Information Technology Divisions:
   Metro: (918) 595-7039, Northeast: (918) 595-7439,
   Southeast: (918) 595-7639, West: (918) 595-8033
Counseling Centers: Metro: (918) 595-7151,
   Northeast: (918) 595-7527, Southeast: (918) 595-7651,
   West: (918) 595-8176

General Education Requirements Credit Hours: 28
See the General Education Requirements for the complete list.
Required Electives and Recommended Electives are included in the Foreign Language requirement.

Foreign Language** Credit Hours: 9-15
Note: Nine of the foreign language hours may be counted in the General Education Requirements under Required Electives (3 hours) and Recommended Electives (6 hours)

Specialized Course Requirements Credit Hours: 21
Accounting 6 hours
   ACCT 2213 Financial Accounting
   *ACCT 2223 Managerial Accounting

Computer Information Systems 3 hours
   CSCI 1203 Computer Concepts and Applications

Economics 9 hours
   ECON 2013 Principles of Macroeconomics
   *ECON 2023 Principles of Microeconomics
   *ECON 2123 International Economic Issues

Speech 3 hours
   ***SPCH/BUSN 2053 Intercultural Communication

Recommended Electives Credit Hours: 0-6
BUSN 1053 Introduction to Business
   *BUSN 2253 International Business Seminar/Field Study
   CSYS 2563 Enterprise Security
   GEOG 1023 World Geography (Economics)
   GEOG 1043 Introduction to Cultural Geography
   MGMT 2123 Leadership Development
   MGMT 2363 Principles of Management
   MKTG 2423 Principles of Marketing
   *MKTG 2813 International Marketing
   *MATH 2193 Elementary Statistics
   MATH 2523 Calculus for Business, Life, and Social Studies
   *POLS 2013 Introduction to Comparative Governments
   *POLS 2203 Introduction to International Relations

Total Credit Hours: 64-67
*Course has prerequisites (See course description section of catalog).
**All foreign languages must be from one language. Check catalog pages 25-26 for Proficiency Certification and Foreign Language advanced standing credit options.
***Students can enroll in either SPCH or BUSN.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

INTERNATIONAL BUSINESS Certificate

Program Description:
This program is designed to provide the student with the business skills required for employment by a company with international operations. Competency in a modern international language is a program option. The program is directed toward students who are preparing for employment by a multinational organization, those who are presently employed in a company with international relations, and students who need assistance in preparing for travel abroad to conduct business. This program allows students the option of developing a competency in a foreign language of choice or of selecting elective business support courses that are related to the student’s occupational goal. Either option will provide the student with an increased knowledge and awareness of international business concepts and cultural practices.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 30
Computer Information Systems 3 hours
   CSCI 1203 Computer Concepts and Applications
   Select three hours from any CSYS/CSCI courses.

Economics 6 hours
   ECON 2013 Principles of Macroeconomics
   *ECON 2123 International Economic Issues

English 6 hours
   ENGL 1113 Freshman Composition I
   and select 3 credit hours from the following:
   *ENGL 2333 Technical/Professional Writing
   *ENGL 2343 Business Communications
   *ENGL 1213 Freshman Composition II

Geography 3 hours
   GEOG 1023 World Geography (Economics)
   GEOG 1043 Introduction to Cultural Geography

Speech 3 hours
   **SPCH/BUSN 2053 Intercultural Communication
   Select 9 hours from either:
   (1) Foreign Language 9 hours
   (2) Business 9 hours
   ACCT 2213 Financial Accounting
   *ACCT 2223 Managerial Accounting
   BUSN 1053 Introduction to Business
   BUSN/PHIL 1143 Introduction to Ethics: Business Issues

BUSINESS FIELDS: International Business
**BUSINESS: BUSINESS FIELDS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUSN 2213</td>
<td>Small Business Management</td>
</tr>
<tr>
<td>BUSN 2253</td>
<td>International Business Seminar/Field Study</td>
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<td>BUSN 2313</td>
<td>Business Law I</td>
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<td>CSYS 2563</td>
<td>Enterprise Security</td>
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<tr>
<td>ECON 2023</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>MGMT 2123</td>
<td>Leadership Development</td>
</tr>
<tr>
<td>MGMT 2363</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>MKTG 2423</td>
<td>Principles of Marketing</td>
</tr>
</tbody>
</table>

**Total Credit Hours: 30**

*Course has prerequisites (See course description section of catalog). **Course can serve as either a SPCH or BUSN credit. Students should choose either the SPCH or BUSN discipline when enrolling. (1) Recommended for students with no foreign language proficiency. (2) Recommended for students with foreign language proficiency.

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**MANAGEMENT INFORMATION SYSTEMS**

Langston University - Tulsa Transfer Option

**Program Description:**
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Management Information Systems at Langston University-Tulsa may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalog and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at Langston University-Tulsa.

**Degree Awarded: Associate in Science**

**For More Information Contact:**
Business and Information Technology Divisions: Metro (918) 595-7039, Northeast (918) 595-7439, Southeast, (918) 595-7639, West (918) 595-8033
Counseling Centers: Metro (918) 595-7151, Northeast (918) 595-7527, Southeast (918) 595-7651, West (918) 595-8176

**General Education Requirements Credit Hours: 36**

- **English 6 hours**
  - *ENGL 1113 Freshman Composition I*
  - *ENGL 1213 Freshman Composition II*

- **Humanities 6 hours**
  - See the General Education Requirements page for complete list.

- **Mathematics 6 hours**
  - *MATH 1513 College Algebra*
  - *MATH 2513 Finite Mathematics*
  - *MATH 2523 Calculus for Business, Life and Social Science*

- **Science 8 hours**
  - BIOLL 1114 General Biology for Non-Majors
  - *PHSC 1114 General Physical Science*

- **Social Science 6 hours**
  - POLS 1113 American Federal Government
  - *HIST 1493 U.S. History Civil War Era to Present*

**Required Electives 3 hours**

Select one 3-credit hour course from one of the following disciplines: Psychology, Social Sciences, Foreign Language, Fine Arts (art, music, theatre)

**Recommended Electives 1 hour**

Select any course except P.E. activities

**Specialized Course Requirements Credit Hours: 24**

- **Accounting 6 hours**
  - ACCT 2213 Financial Accounting
  - *ACCT 2223 Managerial Accounting*

- **Computer Information Systems 12 hours**
  - *CSYS 1203 Introduction to Computer Programming*
  - CSCI 1203 Computer Concepts and Applications
  - CSCI 2333 Systems Analysis and Design
  - *CSCI 2473 C Language*

- **Economics 6 hours**
  - ECON 2013 Principles of Macroeconomics
  - *ECON 2023 Principles of Microeconomics*

**Total Credit Hours: 60**

*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. See page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

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**MANAGEMENT INFORMATION SYSTEMS**

Oklahoma State University Transfer Option

**Program Description:**
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Management Information Systems may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

**Degree Awarded: Associate in Science**

**For More Information Contact:**
Business and Information Technology Divisions: Metro (918) 595-7039, Northeast (918) 595-7439, Southeast, (918) 595-7639, West (918) 595-8033
Counseling Centers: Metro (918) 595-7151, Northeast (918) 595-7527, Southeast (918) 595-7651, West (918) 595-8176

**General Education Requirements Credit Hours: 25**

- General and required electives and mathematics are satisfied under Specialized Course Requirements.

**Specialized Course Requirements Credit Hours: 36**

- **Accounting 6 hours**
  - ACCT 2213 Financial Accounting
  - *ACCT 2223 Managerial Accounting*

- **Computer Information Systems 12 hours**
  - *CSYS 1203 Introduction to Programming*
  - CSCI 1203 Computer Concepts and Applications
  - **CSCI 2133 Introduction to Java**
  - *CSCI 2473 C Language*

- **Economics 6 hours**
  - ECON 2013 Principles of Macroeconomics
  - *ECON 2023 Principles of Microeconomics*

- **Mathematics 9 hours**
  - *MATH 1513 College Algebra*
TECHNOLOGY

Program Description:
This degree is designed for students entering TCC with a technical specialty acquired through completion of Oklahoma Department of Career Technical Education programs, through areas of study that have been evaluated by the American Council on Education, or through industry certification.

Students with prior training or career experience in an area offered as a degree program by TCC must meet with a TCC advisor to determine if credit can be awarded and to create their degree plan.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division, Northeast (918) 595-7439;
Science, Mathematics, and Engineering and Division, Northeast (918) 595-7542
Alliance Coordinator/Counselor: (918) 595-7970
Counseling Center Metro: (918) 595-7151
Northeast: (918) 595-7527 Southeast: (918) 595-7651
West: (918) 595-8176

General Education Requirements Credit Hours: 18

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical /Professional Writing
*ENGL 2343 Business Communications

Humanities 3 hours
Choose any humanities course from the general education requirements page.

The following courses are recommended:
BUSN / PHIL 1143 Introduction to Ethics: Business Issues
BUSN / SPCH 2053 Intercultural Communication

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42-43

Management 9 hours
*MGMT 1353 Management Essentials
*MGMT 1373 Human Resources Management
*MGMT 2123 Leadership Development

Mathematics 3-4 hours
select one course from the following:
*MATH 1454 Technical Mathematics
*MATH 1473 Mathematics for Critical Thinking
*MATH 1513 College Algebra

Speech 3 hours
select one course from the following:
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Technical Support Course Work 6-18 hours
Advance Standing
Up to 18 (APPR) Credit hours in the technical specialty may be awarded for advanced standing credit.
APPR 1306 Apprenticeship I - 6 hours
*APPR 1346 Apprenticeship II - 6 hours
*APPR 2306 Apprenticeship III - 6 hours

Controlled Electives 15-18 hours
select one course from the following:
ENGR 1313 Manufacturing Processes
ENGR/SURV 2262 Professional ENGR/SURV Ethics
*MGMT 1393 Industrial Management
and select remaining coursework for a minimum of 60 total credit hours from one of the following options:
1) Business and Information Technologies
See advisor to select from the following academic disciplines to complement area of specialty: Accounting Business, Computer Information Systems, Economics, Marketing, Finance, Management
2) Science, Engineering and Mathematics Technologies
See advisor to select from the following academic disciplines to complement area of specialty: Civil Engineering / Surveying Technology, Drafting and Engineering, Horticulture Technology, Numerical Control /Machinist Technology, Manufacturing Engineering Technology, Quality Control Technology.

Total Credit Hours: 60-61
*Course has prerequisite (See course description section of catalog).
**BUSINESS**

**Hospitality and Gaming Operations Option**

This program has been articulated to transfer to Northeastern State University Hospitality & Tourism degree.

**Program Description:**
This program is designed for students planning to transfer to senior colleges and universities in business with a hospitality emphasis. The suggested curriculum for this program includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

**Degree Awarded:** Associate in Science

**For More Information Contact:**
Business and Information Technology Division:
West (918) 595-8033
Counseling Centers: West (918) 595-8176

**General Education Requirements Credit Hours:** 25
See the General Education Requirements page for the complete list. General Education Math, Required, and Recommended Elective fulfilled in Specialized Course Requirements of this degree. NSU requires that ENGL 1113, ENGL 1213 and MATH 1513 must be completed with a letter grade of "C" or better.

**Humanities**
See General Education Requirement page for complete list. The following courses are recommended:
NAMS 2113 Native American Cultures
**BUSN/PHIL 1143 Introduction to Ethics, Business Issues

**Specialized Course Requirements Credit Hours:** 36-39

**Accounting 6 hours**
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

**Business 6 hours**
***BUSN 1153 Intro to Hospitality Operations - Hotels, Restaurants and Tourism
***BUSN 2813 Legal Issues in Hospitality Management

**Computer Information Systems 3 hours**
Select 3 credit hours from the following courses:
CSCI 1203 Computer Concepts and Applications
*CSYS 2553 Information Technology/SSV, Hospitality and Gaming Emphasis

**Economics 6 hours**
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

**Management 3 hours**
***MGMT 1383 Human Resources Management for the Hospitality Industry

**Mathematics 6 hours**
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

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**Select one option from the clusters below:**

**Hospitality 6 hours**
BUSN 2203 Supervision and Leadership-Hospitality Industry
BUSN 2403 Guest Relations and Customer Service

**Gaming Operations 9 hours**
BUSN 2203 Supervision and Leadership-Hospitality Industry
GMOP 1113 Basic Room and Basic Game Operations
GMOP 1213 Gaming Management and Protection

**Total Credit Hours:** 61-64
*Course has prerequisite (See course description section of catalog).
** Students can enroll in either PHIL or BUSN if this option is chosen
***Course transfer to some universities. For transfer to other than Northeastern State University, check with the Counseling Center before enrolling.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

**Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.**
Accounting 6 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

Business 15 hours
BUSN 1053 Introduction to Business
**BUSN/PHIL 1143 Introduction to Ethics, Business Issues
BUSN 1153 Introduction to Hospitality Operations - Hotels, Restaurants and Tourism
BUSN 2313 Business Law I
and select 3 credit hours from the following courses:
BUSN 1353 Business Mathematics
*MATH 1513 College Algebra

Computer Information Systems 3 hours
Select 3 credit hours from the following courses:
*CSYS 2553 Information Technology Services, Hospitality and Gaming Emphasis
CSCI 1203 Computer Concepts and Applications

Management 3 hours
MGMT 1383 Human Resources Management for the Hospitality Industry

Marketing 3 hours
MKTG 2423 Principles of Marketing

Controlled Electives Credit Hours: 12
Select courses from one of the following four clusters:

Business Cluster 12 Hours
***BUSN/SPCH 2053 Intercultural Communication
*BUSN 2333 Principles of Finance
BUSN 2403 Guest Relations and Customer Service
BUSN 2813 Legal Issues in Hospitality Management
*CSYS 2553 Information Technology Services, Hospitality and Gaming Emphasis
*ECON 2023 Principles of Microeconomics
NAMS 2013 Images of Indians in American Cultures
NAMS 2113 Native American Culures
NAMS 2213 Native American Spiritualities
NAMS 2343 Native American Histories
NAMS 2513 Native American Law
or

Hospitality Cluster 12 hours
BUSN 2203 Supervision and Leadership - Hospitality Industry
BUSN 2403 Guest Relations and Customer Service
BUSN 2813 Legal Issues in Hospitality Management
*CSYS 2553 Information Technology Services, Hospitality and Gaming Emphasis

Gaming Operations / Protection Cluster 12 Hours
BUSN 2203 Supervision & Leadership Hospitality Industry
BUSN 2403 Guest Relations and Customer Service
GMOP 1113 Basic Room & Basic Game Operations
*GMOP 1213 Gaming Management & Protection
or

Restaurant Management Cluster 12 Hours
BUSN 2203 Supervision & Leadership - Hospitality Industry Operation
BUSN 2403 Guest Relations and Customer Service
HFSV 1413 Labor and Food Cost Management
HFSV 2021 Quality Control Procedures for Hospitality
HFSV 2312 Off-Premise Service Management

Total Credit Hours: 63
*Course has a prerequisite (See course description section of catalog)
**Students can enroll in either PHIL or BUSN if this option is chosen.
***Students can enroll in either SPCH or BUSN if this option is chosen.

HOSPITALITY AND GAMING OPERATIONS CERTIFICATES
These certificates are designed for individuals whose objective is to become qualified for employment in the hospitality industry.

HOSPITALITY AND GAMING OPERATIONS Certificate
Hospitality Certificate
Program description:
This certificate is designed for individuals whose objective is to become qualified for employment in the hospitality industry. The certificate will also provide a means for mid level managers lacking experience in the hospitality industry to become more familiar with and employable in Hospitality.

Degree Awarded: Certificate of Achievement
Certificate Requirement Credit Hours: 18
BUSN 1153 Introduction to Hospitality Operations - Hotels, Restaurants and Tourism
BUSN 2203 Supervision & Leadership - Hospitality Industry
BUSN 2403 Guest Relations and Customer Service
BUSN 2813 Legal Issues in Hospitality Management
*CSYS 2553 Information Technology Services, Hospitality and Gaming Emphasis
CSCI 1203 Computer Concepts and Applications

Total Credit Hours: 18
*Course has a prerequisite (see course description section of catalog).
HOSPITALITY AND GAMING OPERATIONS
Gaming Operations/Protection Certificate

Program Description:
This certificate is designed for individuals whose objective is to become qualified for employment in the gaming operations / protection industry.

Degree Awarded: Certificate of Achievement

Gaming Operations / Protection: 18
BUSN 1153 Introduction to Hospitality Operations - Hotels, Restaurant and Tourism
BUSN 2203 Supervision & Leadership - Hospitality Industry
BUSN 2403 Guest Relations and Customer Service
CSCI 1203 Computer Concepts and Applications
*GMOP 1113 Basic Room & Basic Game Operations
*GMOP 1213 Gaming Management and Protection

Total Credit Hours: 18
*Course has a prerequisite (See course description section of catalog).

HOSPITALITY AND GAMING OPERATIONS
Restaurant Management Certificate

Program Description:
This certificate is designed for individuals whose objective is to become qualified for employment in the restaurant management field.

Degree Awarded: Certificate of Achievement

Restaurant Management Hours: 18
BUSN 1153 Introduction to Hospitality Operations - Hotels, Restaurant and Tourism
BUSN 2203 Supervision & Leadership – Hospitality Industry
BUSN 2403 Guest Relations and Customer Service
CSCI 1203 Computer Concepts and Applications
HFSV 1413 Labor and Food Cost Management
HFSV 2021 Quality Control Procedures
HFSV 2312 Off-Premise Service Management

Total Credit Hours: 18
BUSINESS: INFORMATION TECHNOLOGY

COMPUTER INFORMATION SYSTEMS
Langston University - Tulsa Transfer Option

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Computer Information Sciences at Langston University-Tulsa may complete the freshman and sophomore general education and prerequisite courses at TCC.

Degree Awarded: Associate in Science

For More Information Contact:
Business and Information Technology Divisions:
Metro (918) 595-7039, Northeast (918) 595-7439,
Southeast, (918) 595-7639, West (918) 595-8033
Counseling Centers: Metro (918) 595-7151, Northeast (918) 595-7527,
Southeast (918) 595-7651, West (918) 595-8176

General Education Requirements Credit Hours: 38

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See general education requirements to select 6 hours of Humanities.

Mathematics 6 hours
^MATH 1513 College Algebra
^MATH 1613 Plane Trigonometry

Science 8 hours
BIOL 1114 General Biology for Non-Majors
^PHSC 1114 General Physical Science

Social Science 6 hours
POLS 1113 American Federal Government
and select one of the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Required Electives 3 hours
Select one 3-credit hour course from one of the following disciplines: Psychology, Social Sciences, Foreign Language, Fine Arts (art, music, theatre)

Recommended Electives 3 hours
See General Education Requirement page for complete list.

Specialized Course Requirements Credit Hours: 23

Computer Information Systems 12 hours
^CSYS 1203 Introduction to Computer Programming
^CSCI 1203 Computer Concepts and Applications
^CSCI 2473 C Language
^CSCI 2683 Data Structures

Mathematics 11 hours
^MATH 2114 Analytic Geometry and Calculus I
^MATH 2124 Analytic Geometry and Calculus II
^MATH 2193 Elementary Statistics

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
^Course requires a letter grade of “C” or better.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

COMPUTER INFORMATION SYSTEMS
Northeastern State University Transfer Option

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Computer Science at NSU may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalog and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree.

Degree Awarded: Associate in Science

General Education Requirements Credit Hours: 37
See the General Education Requirements list for complete list.

Specialized Course Requirements Credit Hours: 27

Computer Information Systems 24 hours
*CSYS 1203 Introduction to Computer Programming
*CSCI 1203 Computer Concepts and Applications
*CSYS 2133 Introduction to Java
*CSYS 2473 C Language
*CSYS 2843 C++ Programming Language
*CSCI 2683 Data Structures
and select 6 credit hours from the following
*CSYS 1013 XHTML
*CSYS 2413 Advanced Java
*CSYS 1483 Introduction to UNIX (Linux)
* CSCI 2283 Visual Basic

English 3 hours
*ENGL 2333 Technical/Professional Writing

Total Credit Hours: 64
*Course has prerequisite (see course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

COMPUTER INFORMATION SYSTEMS
Oklahoma State University Transfer Option

Program Description:
This degree plan is for students planning to attend Oklahoma State University-Tulsa to complete a baccalaureate degree in Computer Science in the College of Arts and Sciences. The suggested degree curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should visit with a TCC counseling office to consult the OSU catalog for Undergraduate Programs Requirements and carefully select courses that will meet the requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

General Education Requirements Credit Hours: 36-37
Remaining General Education Requirements met in Specialized Course Requirements

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II
Computer Information Systems

Program Description:
The Business Application Specialist program is designed to provide graduates with the diversity of business and applications software skills needed to: Effectively use application software in a business setting and prepare for the Microsoft Certified Application Specialist (MCAS) exams in Word, Excel, Access, Outlook, Windows and PowerPoint (MCAS) and the Application Professional certification.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Divisions:
Metro: (918) 595-7039, Northeast: (918) 595-7439, Southeast: (918) 595-7639, West: (918) 595-8033
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651, West: (918) 595-8176

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communication

Mathematics 3 hours
*MATH 1513 College Algebra
BUSN 1353 Business Mathematics

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Recommended Electives: 2-3 hours
Any courses designated H. Recommend one course designated I.
See the General Education Requirements page for complete list.

Specialized Course Requirements Credit Hours: 42

Accounting/Business/Mathematics 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
BUSN 1053 Introduction to Business
MGMT 2363 Principles of Management
*MATH 2193 Elementary Statistics

Computer Information Systems 18 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 2013 Word
*CSCI 2033 Excel
*CSCI 2043 Access
*CSCI 2163 Windows Operating Systems
*CSCI 2483 PowerPoint/Multimedia
Controlled Electives Credit hours: 12
Any 2000 level CSYS/CSCI course may be used as a controlled elective.
*CSYS 2323 Outlook is recommended

Total Credit Hours: 60
*Courses has prerequisite (See our course description section of catalog).

COMPUTER INFORMATION SYSTEMS
Business Application Specialist Certificate

Program Description:
The Business Application Specialist Certificate is designed to empower information workers with the in-demand skills to 1) effectively use application software in a business setting, and 2) prepare for the Microsoft Application Specialist (MCAS) exams in Word, Excel, Access, Outlook and PowerPoint.

Degree Awarded: Certificate of Achievement
Certificate Requirements Credit Hours: 15

Computer Information Systems 15 hours
* CSCI 2013 Word
* CSCI 2033 Excel
* CSCI 2043 Access
* CSCI 2483 PowerPoint/Multimedia
and select one course from the following:
* CSYS 2323 Outlook
* CSCI 2163 Windows Operating Systems

Total Credit Hours: 15
*Course has prerequisite (See course description section of catalog).

COMPUTER INFORMATION SYSTEMS
Computer User Certificate

Program Description:
This program has been designed to produce a knowledgeable and proficient computer user upon completion of all 5 classes.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business/Information Technology Division:
West Campus: (918) 595-8033
Counseling Center: West (918) 595-8176

Certificate Requirements Credit Hours: 7
CSCI 1203 Computer Concepts and Applications
* CSCI 1641 Windows
* CSCI 1161 Introduction to the Internet
* CSCI 1541 Advanced Excel
* CSCI 1561 Advanced Word

Total Credit Hours: 7
*Course has prerequisite (See course description section of catalog).

COMPUTER INFORMATION SYSTEMS
Information Assurance and Forensics
OSU - Okmulgee Transfer Option

Program Description:
This program marks a partnership between Tulsa Community College and Oklahoma State University-Okmulgee, and has been designed to facilitate seamless transition from TCC to OSU-Okmulgee. Under this partnership, TCC students may use this associate degree as the first four semesters of the OSU-Okmulgee Bachelor of Technology in Information Assurance and Forensic degree.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business/Information Technology Division:
Northeast Campus: (918) 595-7439
Counseling Northeast Campus: (918) 595-7527

General Education Requirements Credit Hours: 30

English 6 hours
* ENGL 1113 Freshman Composition I
* ENGL 1213 Freshman Composition II

Humanities 6 hours
PHIL 2113 Logic
PHIL 2133 Introduction to Ethical Thinking

Mathematics 3 hours
* MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government
and select one of the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Controlled Electives Credit Hours: 6 hours

BUSB 1053 Intro to Business
CSCI 1203 Computer Concepts and Applications

Specialized Course Requirements: 30 hours

Technical Core 15 hours
* CSYS 1013 XHTML
* CSYS 2413 Advanced JAVA
* CSCI 1263 Network Fundamentals
* CSCI 2133 Introduction to JAVA
* CSCI 2143 A+ IT Technician

Information Assurance & Forensics 12 hours
* ITCV 2033 Broadband/CCENT
* ITCV 2203 CCNA Routing & Switching
* CSYS 2493 Principles of Information Assurance
* CSYS 2563 Enterprise Security

Required Elective Credit Hours: 3 hours
* ITCV 2023 Wireless Networking

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

BUSINESS fields: Computer Information Systems

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COMPUTER INFORMATION SYSTEMS
Networking

Program Description:
The CSYS Networking program is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and information Technology Divisions:
Metro: (918) 595-7039 Northeast: (918) 595-7439
Southeast: (918) 595-7639
Counseling Centers:
Metro: (918) 595-7151 Northeast: (918) 595-7527
Southeast: (918) 595-7639

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
and select one 3 credit hour course from following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 3 hours
*MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 30

Accounting/Business/Mathematics 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
BUSN 1053 Introduction to Business
MGMT 2363 Principles of Management
*MATH 2193 Elementary Statistics
*MATH 2513 Finite Mathematics

Computer Information Systems 18 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Network Fundamentals
and select one 3 credit hour course from following:
*CSCI 2053 Novell Network Administration
*CSYS 2053 Windows Network Administration
*CSYS 2063 Microsoft Windows 2000 Series Server
*CSCI 2803 UNIX Networking (Linux)
and select one 3 credit hour course from following:
*CSCI 2203 Data Communication
*CSCI 2143 A+ IT Technician
*ITCV 2203 CCNA Routing and Switching

Total Credit Hours: 60
*Course has prerequisite (See course description section of the catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

COMPUTER INFORMATION SYSTEMS
Certificate, Networking

Program Description:
The CSYS Networking certificate program is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Divisions:
Metro: (918) 595-7039 Northeast: (918) 595-7439
Southeast: (918) 595-7639
Counseling Centers: Metro: (918) 595-7151
Northeast: (918) 595-7527 Southeast: (918) 595-7651

Specialized Course Requirements Credit Hours: 18
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Network Fundamentals
and select one 3 credit hour course from following:
*CSCI 2053 Novell Network Administration
*CSYS 2053 Windows Network Administration
*CSYS 2063 Microsoft Windows 2000 Series Server
*CSCI 2803 UNIX Networking (Linux)
and select one 3 credit hour course from following:
*CSCI 2203 Data Communication
*CSCI 2143 A+ IT Technician
*ITCV 2203 CCNA Routing and Switching
and select one 3 credit hour course from following:
*CSYS 2083 Windows 2000 Series Network Infrastructure
*CSCI 2103 Networking Technologies
and select one 3 credit hour course from following:
*CSYS 2493 Principles of Information Assurance
*CSCI 2243 Network Design and Troubleshooting

Total Credit Hours: 18
*Course has prerequisite (See course description section of the catalog).
COMPUTER INFORMATION SYSTEMS

Program Description:
The CSYS Programming program is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Divisions: Metro: (918) 595-7039, Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
Select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 3 hours
*MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 30

Accounting/Business/Mathematics 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
BUSN 1053 Introduction to Business
MGMT 2363 Principles of Management
*MATH 2193 Elementary Statistics
*MATH 2513 Finite Mathematics

Computer Information Systems 18
*CSYS 1203 Introduction to Computer Programming
CSCI 1203 Computer Concepts and Applications
*CSCI 2473 C Language
and select one 3 credit hour course from each of the 3 following groups:

Group 1
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 2163 Windows Operating Systems

Group 2
*CSCI 2133 Introduction to JAVA
*CSCI 2283 Visual Basic
*CSCI 2683 Data Structures
*CSCI 2843 C++ Programming Language

Group 3
*CSYS 2413 Advanced JAVA
*CSCI 2873 Advanced C++
*CSCI 2893 Advanced Visual Basic

Total Credit Hours: 60
*Course has prerequisite (See course description section of the catalog. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

COMPUTER INFORMATION SYSTEMS
Certificate, Programming

Program Description:
The CSYS Programming Certificate is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Divisions: Metro: (918) 595-7039, Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651

Specialized Course Requirements Credit Hours: 18

Computer Information Systems 18 hours
*CSYS 1203 Introduction to Computer Programming
CSCI 1203 Computer Concepts and Applications
*CSCI 2473 C Language
and select one 3 credit hour course from each of the 3 following groups:

Group 1
*CSYS 1483 Introduction to UNIX (Linux)
*CSCI 2163 Windows Operating Systems

Group 2
*CSCI 2133 Introduction to JAVA
*CSCI 2283 Visual Basic
*CSCI 2683 Data Structures
*CSCI 2843 C++ Programming Language

Group 3
*CSYS 2413 Advanced JAVA
*CSCI 2873 Advanced C++
*CSCI 2893 Advanced Visual Basic

Total Credit Hours: 18
*Course has prerequisite (See course description section of the catalog.)
COMPUTER INFORMATION SYSTEMS

Program Description:
This program is designed to provide graduates with the diversity of skills needed to troubleshoot and implement a course of action necessary to solve customer hardware, software, and networking problems.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Divisions: Northeast: (918) 595-7439
Counseling Centers: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 21

English 6 hours
*ENGL 1113 Freshman Composition I and select one 3 credit hour course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communication

Mathematics 3 hours
*MATH 1513 College Algebra

Speech 3 hours
SPCH 2103 Introduction to Interpersonal Communication

Social Science 6 hours
POLS 1113 American Federal Government and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Psychology/Sociology 3 hours
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Specialized Course Requirements Credit Hours: 39

Business 3 hours
BUSN 1053 Introduction to Business

Computer Information Systems 21 hours
*CSYS 2023 A+ Essentials
*CSYS 2493 Principles of Information Assurance
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Network Fundamentals
*CSCI 1273 Customer Support
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 2143 A+ IT Technician

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

COMPUTER INFORMATION SYSTEMS

Program Description:
This program is designed for students who wish to acquire knowledge and skills needed to troubleshoot and implement a course of action necessary to solve customer hardware, software, and networking problems. Entry competencies include: basic knowledge of PCs and familiarity with the Windows operating system. On completion of coursework, students may sit for certification exams from CompTIA and Microsoft.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 15
*CSYS 2023 A+ Essentials
*CSYS 2493 Principles of Information Assurance
*CSCI 1263 Network Fundamentals
*CSCI 1273 Customer Support
*CSCI 2143 A+ IT Technician

Total Credit Hours: 15
*Course has prerequisites (See course description section of catalog).

COMPUTER INFORMATION SYSTEMS

UNIX

Program Description:
The CSYS UNIX program is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Divisions: Metro: (918) 595-7039, Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
Select 3 credit hours from the following courses:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 3 hours
*MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication
Business: Information Technology

Specialized Course Requirements Credit Hours: 30

Accounting/Business/Mathematics 12 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
BUSN 1053 Introduction to Business
MGMT 2363 Principles of Management
*MATH 2193 Elementary Statistics
*MATH 2513 Finite Mathematics

Computer Information Systems 18 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 2473 C Language
*CSCI 2783 Advanced UNIX (Linux)
*CSCI 2793 UNIX Programming (Linux)
*CSCI 2803 UNIX Networking (Linux)

Controlled Elective Hours: 12
Select 12 hours from the Computer Information Electives.

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

General Education Requirements Credit hours 18

English 6 hours
*ENGL 1113 Freshman Composition I
select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communication

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Mathematics 3 hours
*MATH 1513 College Algebra

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements 45 hours

Business/Mathematics 6 hours
BUSN 1053 Introduction to Business
*MATH 2513 Finite Mathematics

Computer Information Systems 33 hours
*CSYS 1203 Introduction to Computer Programming
*CSYS 1013 XHTML
*CSYS 2413 Advanced Java
*CSYS 2473 ColdFusion
*CSYS 2503 ASP .NET
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Network Fundamentals
*CSCI 2133 Introduction to Java
*CSCI 2473 C Programming
and select one 3 credit hour course from the following:
*CSYS 1153 Adobe Dreamweaver
*CSYS/MKTG 1393 Web Design and Marketing
and select one 3 credit hour course from the following:
*CSYS 2033 Scripting
*CSYS 2153 Advanced XHTML Technologies

Controlled Electives 6 hours
*CSYS 1223 XML
*CSYS 1283 Macromedia Flash Animation
*CSYS 2153 Advanced XHTML Technologies
*CSYS 2463 PHP Programming
*CSYS 2533 Java Server Pages (JSP)
*CSYS 2643 Database Design on MS SQL Server or
CSYS 1133 Oracle: Introduction to SQL & PL/SQL

Total Credit Hours 63
*Course has prerequisites (See course description section of catalog).

Computer Information Systems Certificate, UNIX

Program Description:
The CSYS UNIX Certificate is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Certificate of Achievement

Specialized Course Requirements Credit Hours: 18
CSCI 1203 Computer Concepts and Applications
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 2473 C Language
*CSCI 2783 Advanced UNIX (Linux)
*CSCI 2793 UNIX Programming (Linux)
*CSCI 2803 UNIX Networking (Linux)

Total Credit Hours: 18
*Course has prerequisite (See course description section of catalog).

Computer Information Systems Web Development

Program Description:
This program is designed to provide graduates with the knowledge required to assume the role of a web developer. Completion of this program will allow a student to operate in a Microsoft, Java, or Macromedia environment, creating the back end programming required by today's dynamic database driven websites and web distributed applications.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division:
Metro Campus: (918) 595-7039, Southeast (918) 595-7639
Counseling Centers: Metro Campus (918) 595-7151,
Southeast (918) 595-7651

Business Fields: Computer Information Systems
COMPUTER INFORMATION SYSTEM
Certificate, Web Development

Program Description:
This program is designed to provide graduates with the knowledge required to assume the role of a web developer. Completion of this program will allow a student to operate in a Microsoft, Java, or Macromedia environment, creating the server-side programming required by today’s dynamic database driven websites and web distributed applications.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Division
Metro Campus: (918) 595-7039 Southeast (918) 595-7639
Counseling Centers: Metro Campus (918) 595-7151
Southeast (918) 595-7651

Specialized Course Requirements 33 hours
*CSYS 1013 XHTML
*CSYS 1203 Introduction to Computer Programming
*CSYS 2033 Scripting
*CSYS 2413 Advanced Java
*CSYS 2473 ColdFusion
*CSYS 2503 ASP.NET
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Network Fundamentals
*CSCI 2133 Introduction to Java Programming
*CSCI 2473 C Programming
and select one from the following:
*CSYS 1153 Adobe Dreamweaver
*CSYS/MKTG 1393 Web Design and Marketing

It is strongly recommended that students take the following additional courses.
*CSYS 1233 XML
*CSYS 1283 Macromedia Flash Animation
*CSYS 2153 Advanced XHTML Technologies
*CSYS 2463 PHP Programming
*CSYS 2533 Java Server Pages (JSP)

Select one from the following:
*CSYS 2643 Database Design on MS SQL Server
*CSYS 1133 Oracle: Introduction to SQL & PL/SQL

Total Credit Hours: 33
*Course has prerequisite (See course description section of catalog).

COMPUTER INFORMATION SYSTEMS
Web-Site Management

Program Description:
The Web-Site Management program is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division: Southeast (918) 595-7639
Counseling Center: Southeast (918) 595-7651

General Education Requirements Credit Hours: 18
English 6 hours
*ENGL 1113 Freshman Composition I

Select 3 credit hours from the following courses:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 3 hours
*MATH 1513 College Algebra

Social Science 6 hours
HIST 1483 U.S. History 1492 to Civil War Era
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
POLS 1113 American Federal Government

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 42
Accounting/Business/Mathematics 12 hours
Select 3 credit hours from the following courses:
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
BUSN 1053 Introduction to Business
MGMT 2363 Principles of Management
MKTG 2423 Principles of Marketing
*MATH 2193 Elementary Statistics
*MATH 2513 Finite Mathematics

Computer Information Systems 30
*CSYS 1013 XHTML
*CSYS 1393/MKTG 1393 Web Design and Marketing
*CSCI 1263 Network Fundamentals
and select one 3 credit hour course from the following:
*CSYS 1063 Digital Image Editing
*CSYS 1033 Adobe Photoshop

and select one 3 credit hour course from the following:
CSCI 1203 Computer Concepts and Applications
CSCI 1203 Introduction to Programming
*CSCI 2473 C Programming
and select one 3 credit hour course from the following:
*CSCI 2783 Advanced UNIX (Linux)
*CSCI UNIX (Linux) Networking

Required Electives 12 hours
Select four 3-credit hour courses from the following:
CSYS 1443 Electronic Commerce
CSYS 1483 Introduction to UNIX (Linux)
CSYS 2023 A+ Microcomputer Operating Systems
CSYS 2153 Advanced XHTML Technologies
CSYS 2033 Scripting
CSCI 2163 Windows Operating Systems
CSCI 2243 Networking Design and Troubleshooting
*CSYS 2013 Webserver Administration
*CSCI 2783 Advanced UNIX (Linux)
*CSCI 2803 UNIX (Linux) Networking

Any 3-6 hours of 2000 level CSYS electives may be substituted for the above required electives.

Total Credit Hours: 60
*Course has prerequisite (See course description section of the catalog.)
COMPUTER INFORMATION SYSTEMS
Certificate, Web-Site Management

Program Description:
The Web-Site Management Certificate is designed to provide graduates with the depth and diversity of skills needed to apply computer technology to business needs.

Degree Awarded: Certificate of Achievement
For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

Specialized Course Requirements Credit Hours: 18
*CSYS 1013 XHTML
*CSYS/MKTG 1393 Web Design and Marketing
*CSCI 1263 Network Fundamentals
and select one 3 credit hour course from the following:
*CSYS 1063 Digital Image Editing
*CSCI 1033 Adobe Photoshop

Total Credit Hours: 18
*Course has prerequisite (See course description section of the catalog).

COMPUTER INFORMATION SYSTEMS
Certificate, Windows 2000 (MCSE Preparation)

Program Description:
This advanced certificate program is designed for students who have earned college credit in computer science/networking and other Information Systems' disciplines, have at least one year of computer network related experience, and wish to prepare themselves for MCSE certification exams.

Degree Awarded: Certificate of Achievement
For More Information Contact:
Business and Information Technology Division:
Northeast: (918) 595-7439
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651

Certificate Requirements Credit Hours: 21
Computer Information Systems 15 hours
*CSYS 2043 Microsoft Windows 2000 Professional
*CSYS 2063 MS Windows 2000 Series Server
*CSYS 2083 MS Windows 2000 Series Network Infrastructure
*CSYS 2093 Implementing Microsoft Windows 2000 Series Directory Services Infrastructure
and choose one of the following:
*~CSYS 2103 Designing MS Windows 2000 Series Network Infrastructure
*~CSYS 2113 Designing Security in a MS Windows 2000 Network

Total Credit Hours: 21
*Course has prerequisite (See course description section of the catalog).
~Can be used as elective but not the one chosen for 3 hours of requirements.

COMPUTER INFORMATION SYSTEMS
Electives
A Partial List of Controlled Electives for Computer Information Systems follows.
Other courses, numbered 2003 or above may be substituted. Select courses from this list to fulfill elective requirements as stated in the Computer Information Systems degree and certificate patterns listed on the preceding pages.
NOTE: A Business Services Associate Dean must approve substitution of courses at the 1000 level not included in this section.

1000 level courses:
*CSYS 1013 XHTML
*CSYS 1033 Adobe Photoshop
*CSCI 1033 Adobe Photoshop Editing
*CSCI 1063 Digital Image Editing
*CSCI 1123 3D Graphics Using Lightwave
*CSCI 1123 3D Graphics Using Lightwave
*CSCI 1133 Oracle: Introduction to SQL
*CSCI 1203 Introduction to Computer Programming
*CSCI 1233 XML
*CSCI 1153 Adobe Dreamweaver
*CSCI 1393 Web Design and Marketing
*CSCI 1443 Electronic Commerce
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 1483 Introduction to UNIX (Linux)
*CSCI 1483 Introduction to UNIX (Linux)

2000 level courses:
Any 2000 level CSYS/CSCI/ITCV courses may be used as a controlled elective.
*Course has prerequisite (See course description section of the catalog).

DIGITAL MEDIA OPTIONS, AAS/CER
See Arts & Communications area of study: Graphic Arts

DRAFTING & DESIGN ENGINEERING, AAS
DRAFTING & COMPUTER AIDED DESIGN, CER
See Science Technology Engineering and Mathematics area of study: Technology
BUSINESS: INFORMATION TECHNOLOGY

COMPUTER PROGRAMMING
Transaction Processing Facility (TPF)

Program Description:
This program is designed to develop programming and related skills necessary to function effectively as a Transaction Processing Facility Programmer. This highly regarded program provides hands-on training on the latest hardware and software. Students must be admitted to the program prior to enrollment.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business Services Division, Northeast: (918) 595-7439
Counseling Office, Northeast: (918) 595-7527

General Education Requirements Credit Hours: 21

English 6 hours
*ENGL 1113 Freshman Composition I
and one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communication

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communications

Specialized Course Requirements Credit Hours: 30

Computer Information Systems 30 hours
*CSCI 1043 TPF Operating System Concepts
*CSCI 1083 Using the TOOLKIT
*CSCI 1093 Basic Assembler Language
*CSCI 1133 Advanced Assembler Language
*CSCI 1153 Using TPF Standard I/O majors
*CSCI 1193 TPF ISOC Programming
*CSCI 1663 TPF/DF Database Facility
*CSCI 1692 TPF ISOC with TPF/DF Functions

Controlled Electives Credit Hours: 9
ACC 2213 Financial Accounting
ACC 2223 Managerial Accounting
and select one course from the following:
BUSN 1053 Introduction to Business
ECON 2013 Principles of Macroeconomics

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

COMPUTER PROGRAMMING
Transaction Processing Facility (TPF) Certificate

Program Description:
This program is designed to develop programming and related skills necessary to function effectively as a Transaction Processing Facility Programmer. This highly regarded program provides hands-on training on the latest hardware and software. Students must be admitted to the program prior to enrollment.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business Services Division, Northeast: (918) 595-7439
Counseling Office, Northeast: (918) 595-7527

Computer Information Systems Credit Hours: 30

Computer Information Systems 30 hours
*CSCI 1043 TPF Operating System Concepts
*CSCI 1083 Using the TOOLKIT
*CSCI 1093 Basic Assembler Language
*CSCI 1133 Advanced Assembler Language
*CSCI 1153 Using TPF Standard I/O majors
*CSCI 1193 TPF ISOC Programming
*CSCI 1663 TPF/DF Database Facility
*CSCI 1692 TPF ISOC with TPF/DF Functions
*CSCI 1702 TPF with Standard I/O Functions
*CSCI 1762 TPF Utilities
*CSCI 2903 C Language for TPF majors

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).
INFORMATION TECHNOLOGIES CONVERGENCE

Program Description:
This program is designed to help students develop or upgrade skills needed to function in today’s changing information technology environment. Voice, data, and video networks are rapidly converging into a single, flexible communications network consisting of both wired and wireless components. Students will acquire skills in designing, installation, configuring, and maintaining voice, data, and video products and services in converged networks. To complete an AAS degree, students must also select from one of three options – Information Security, System Support, or Cisco Routing. Many of the courses in this program are designed to help students prepare to take industry certification exams from Microsoft, CompTIA, Cisco, and TIA.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business Services Division, Northeast: (918) 595-7439
Counseling Office, Northeast: (918) 595-7527

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
and one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communication

Mathematics 3 hours
*MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communications

Specialized Course Requirements Credit Hours: 42

Computer Information Systems 15 hours
***CSYS 2063 MS Windows 2000 Series Server
* CSYS 2493 Principles of Information Assurance
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Networking Fundamentals
*CSCI 1483 Introduction to UNIX (Linux)

Information Technologies Convergence 15 hours
*ITCV 1033 Introduction to Voice Communications and Convergence
*ITCV 2023 Wireless Networking
*ITCV 2033 Broadband Networking/CCENT
*ITCV 2063 VoIP & Convergence Technologies
* **ITCV 2203 CCNA Routing and Switching

Plus one of the three following options of specialization:

Cisco Routing Specialization 12 hours 946B
*ITCV 2233 CCNP Routing
*ITCV 2253 CCNP Switching
*ITCV 2263 CCNP Secure Converged WANs
*ITCV 2283 CCNP Optimizing Converged Cisco Networks

Information Security Specialization 12 hours 946C
*CSYS 2523 Secure Electronic Commerce
*CSYS 2543 Network Security
CSYS 2563 Enterprise Security
*CSYS 2583 Cyber Forensics

System Support Specialization 12 hours 946D
*CSYS 2023 A+ Essentials**
*CSCI 1273 Customer Support
*CSCI 2143 A+ IT Technician**
and select any 3 credit hour 2000 level CSYS, CSCI, or ITCV course

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
**Credit may be obtained through coursework at any Certified Cisco Academy or presentation of Cisco, Microsoft, or COMPtIA Certification.

INFORMATION TECHNOLOGIES CONVERGENCE Basics Certificate

Program Description:
This program is designed to help students develop or upgrade skills needed to function in today’s rapidly changing information technology environment. Voice, data, and video networks are rapidly converging into a single, flexible communications network consisting of both wired and wireless components. Students will acquire skill in designing, installation, configuring, and maintaining voice, data, and video products and services in converged networks. After achieving this Certificate, students can acquire an ITCV Essentials Certificate by taking 2 additional classes.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Division:
Northeast (918) 595-7439
Counseling Office: Northeast: (918) 595-7527

Certificate Requirements Credit Hours: 15

Computer Information Systems 6 hours
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Networking Fundamentals

Information Technologies Convergence 9 hours
*ITCV 1033 Introduction to Voice Communications and Convergence
*ITCV 2023 Wireless Networking
*ITCV 2033 Broadband Networking/CCENT
*ITCV 2063 VoIP & Convergence Technologies

Total Credit Hours: 15
*Course has prerequisite (See course description section of catalog).
### BUSINESS: INFORMATION TECHNOLOGY

**INFORMATION TECHNOLOGIES CONVERGENCE Essentials Certificate**

**Program Description:**
This program is designed to help students develop or upgrade skills needed to function in today's rapidly changing information technologies environment. Voice, data, and video networks are rapidly converging into a single, flexible communications network consisting of both wired and wireless components. Students will acquire skills in designing, installation, configuring, and maintaining voice, data, and video products and services in converged networks. After achieving this certificate, students can acquire the ITCV certificate by taking 3 additional classes.

**Certificate Requirements Credit Hours: 21**

- Computer Information Systems 6 hours
  - CSCI 1203 Computer Concepts and Applications
  - *CSCI 1263 Networking Fundamentals
- Information Technologies Convergence 15 hours
  - *ITCV 1033 Introduction to Voice Communications and Convergence
  - *ITCV 2023 Wireless Networking
  - *ITCV 2033 Broadband Networking/CCENT
  - *ITCV 2063 VoIP & Convergence Technologies
  - ** *ITCV 2203 CCNA Routing and Switching

**Total Credit Hours: 21**

*Course has prerequisite (see course description section of catalog).**

**Credit may be obtained through coursework at any Certified Cisco Academy or presentation of Cisco, Microsoft, or COMPTIA Certification.

**INFORMATION TECHNOLOGIES CONVERGENCE Certificate**

**Program Description:**
This program is designed to help students develop or upgrade skills needed to function in today's rapidly changing information technologies environment. Voice, data, and video networks are rapidly converging into a single, flexible communications network consisting of both wired and wireless components. Students will acquire skills in designing, installation, configuring, and maintaining voice, data, and video products and services in converged networks.

**Degree Awarded: Certificate of Achievement**

**Certificate Requirements Credit Hours: 21**

- Computer Information Systems 6 hours
  - CSCI 1203 Computer Concepts and Applications
  - *CSCI 1263 Networking Fundamentals
- Information Technologies Convergence 15 hours
  - *ITCV 1033 Introduction to Voice Communications and Convergence
  - *ITCV 2023 Wireless Networking
  - *ITCV 2033 Broadband Networking/CCENT
  - *ITCV 2063 VoIP & Convergence Technologies
  - ** *ITCV 2203 CCNA Routing and Switching

**Total Credit Hours: 21**

*Course has prerequisite (see course description section of catalog).*

**Credit may be obtained through coursework at any Certified Cisco Academy or presentation of Cisco, Microsoft, or COMPTIA Certification.

**INFORMATION TECHNOLOGIES CONVERGENCE Cisco Routing Basics Certificate**

**Program Description:**
This certificate program is designed to help systems and network administrators or engineers who have previous or current experience with Cisco routers and switches to upgrade skills necessary for wide area network configuration and maintenance in today's rapidly changing voice, data, and video IT environment. These classes are also designed to help prepare students to take Cisco certification exams. Students should have solid skills using TCP/IP protocols, IP addressing and subnetting, and should have experience in the WAN environment, or check with an ITCV faculty member regarding preparedness.

**Degree Awarded: Certificate of Achievement**

**Certificate Requirements Credit Hours: 15**

- Information Technologies Convergence 15 hours
  - ** *ITCV 2203 CCNA Routing and Switching
  - ** *ITCV 2233 CCNP Routing
  - ** *ITCV 2253 CCNP Switching
  - ** *ITCV 2263 CCNP Secure Converged WANS
  - ** *ITCV 2283 CCNP Optimizing Converged Network

**Total Credit Hours: 15**

*Course has prerequisite (see course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.*

**Credit may be obtained through coursework at any Certified Cisco Academy or Presentation of a Cisco Certification.*

**INFORMATION TECHNOLOGIES CONVERGENCE Cisco Routing Certificate**

**Program Description:**
This program is designed for students who wish to acquire skills necessary for employment as Convergence/WAN Systems Analysts or Network Administrators.

**Degree Awarded: Certificate of Achievement**

**Certificate Requirements Credit Hours: 30**

- Computer Information Systems 3 hours
  - CSCI 1203 Computer Concepts and Applications
  - *CSCI 1263 Networking Fundamentals
- Information Technologies Convergence 27 hours
  - *ITCV 1033 Introduction to Voice Communications and Convergence
  - *ITCV 2203 CCNA Routing and Switching
  - *ITCV 2233 CCNP Routing
  - *ITCV 2253 CCNP Switching
  - *ITCV 2263 CCNP Secure Converged WANS
  - *ITCV 2283 CCNP Optimized Converged Cisco Networks
  - *ITCV 2023 Wireless Networking
  - *ITCV 2023 Broadband Networking/CCENT
  - *ITCV 2063 VoIP & Convergence Technologies

**Total Credit Hours: 30**

*Course has prerequisite (see course description section of catalog). See program advisor to determine if credit may be obtained through coursework at a Certified Cisco Academy or presentation of Cisco Certification.*

**Credit may be obtained through coursework at any Certified Cisco Academy or presentation of Cisco, Microsoft, or COMPTIA Certification.*
INFORMATION TECHNOLOGIES CONVERGENCE
Information Security Essentials Certificate

Program Description:
This program is designed for students who wish to acquire skills necessary for specializing in convergence/Information Security. Students will be admitted to the program based upon meeting the program's admission criteria, but may enroll in CSYS 2493 and CSYS 2563 before acceptance into the program. After achieving this certificate, students can acquire the Information Security certificate by taking 2 additional classes.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business Services division: Northeast (918) 595-7439
Counseling Office: Northeast (918) 595-7527

Certificate Requirements Credit Hours: 24

Computer information System 18 hours
*CSYS 2493 Principles of Information Assurance
*CSYS 2523 Secure Electronic Commerce
*CSYS 2543 Network Security
*CSYS 2563 Enterprise Security
*CSYS 2583 Cyber Forensics
*CSCI 1263 Networking Fundamentals

Information Technologies Convergence 6 hours
*ITCV 2023 Wireless Networking
*ITCV 2063 VoIP & Convergence Technologies

Total Credit Hours: 24
*Course has prerequisite (see course description section of catalog).

INFORMATION TECHNOLOGIES CONVERGENCE
Information Security Certificate C

Program Description:
This program is designed for students who wish to acquire skills necessary for specializing in converged network security. Students will be admitted to the program based upon meeting the program's admission criteria, but may take CSYS 2493 and CSYS 2563 before acceptance into the program.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 30

Computer information Systems 18 hours
*CSYS 2493 Principles of Information Assurance
*CSYS 2523 Secure Electronic Commerce
*CSYS 2543 Network Security
*CSYS 2563 Enterprise Security
*CSYS 2583 Cyber Forensics
*CSCI 1263 Networking Fundamentals

Information Technologies Convergence 12 hours
*ITCV 1033 Introduction to Voice Communications and Convergence
*ITCV 2023 Wireless Networking
*ITCV 2033 Broadband Networking/CCENT
*ITCV 2063 VoIP & Convergence Technologies

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).

INFORMATION TECHNOLOGIES CONVERGENCE
Systems Support Certificate

Program Description:
This program is designed for students who wish to acquire skills necessary for employment as Network Administrators or Computer Support Technicians.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business Services Division, Northeast Campus: (918) 595-7439
Northeast Counseling Center: (918) 595-7527

Certificate Requirements Credit Hours: 30

Computer Information Systems 18 hours
*CSYS 2023 A+ Essentials
*CSYS 2063 MS Windows 2000 Series Server
*CSCI 1263 Networking Fundamentals
*CSCI 2053 Novell Administrator
*CSCI 2143 A+ IT Technician
*CSCI 2243 Network Design and Troubleshooting

Information Technologies Convergence 12 hours
*ITCV 1033 Introduction to Voice Communications and Convergence
*ITCV 2023 Wireless Networking
*ITCV 2033 Broadband Networking/CCENT
*ITCV 2063 VoIP & Convergence Technologies

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).

INFORMATION TECHNOLOGIES CONVERGENCE
Management

Program Description:
This program is designed to help students develop skills needed to function in areas of management in today's rapidly changing information technologies environment. Voice, data, and video networks are rapidly converging into a single, flexible communications network consisting of both wired and wireless components. Students will acquire training in management, economics, and finance, as well as technical training in convergence technologies. Additionally, this degree may help students pursue an undergraduate degree in technology related fields.

Degree Awarded: Associate of Applied Science

General Education Requirements: Credit Hours: 24

English 6 Hours
*ENGL 1113 Freshmen Composition I
*ENGL 1213 Freshmen Composition II

Social Sciences 9 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

and select one course from the following:
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology
Mathematics 3 hours
*MATH 1513 College Algebra

Communications 3 hours
select one course from the following:
SPCH 1113 Speech Communication I or SPCH 2103 Interpersonal Communication

Humanities 3 hours
HUM 2113 Humanities I

Specialized Course Requirements Credit Hours: 36

Business 9 hours
ACCT 2213 Financial Accounting
BUSN 1053 Introduction to Business
ECON 2013 Principles of Macroeconomics

Computer Information Systems 9 hours
CSCI 1203 Computer Concepts and Applications
*CSYS 2563 Enterprise Security
*CSCI 1263 Networking Fundamentals

Information Technologies Convergence 12 hours
*ITCV 1033 Introduction to Voice Communications and Convergence
*ITCV 2023 Wireless Networking
*ITCV 2033 Broadband Networking/CCENT
*ITCV 2063 VoIP & Convergence Technologies

Management 6 Hours
*MGMT 1373 Human Resources management
and select one course from the following
MGMT 1353 Management Essentials
MGMT 2363 Principles of Management

Total Credit Hours: 60

INFORMATION TECHNOLOGIES CONVERGENCE
Management Certificate

Program Description:
This program is designed to help students develop skills needed to function in areas of management in today's rapidly changing information technologies environment. Voice, data, and video networks are rapidly converging into a single, flexible communications network consisting of both wired and wireless components. Students will acquire training in management, economics, and finance, as well as technical training in convergence technologies. Students who have achieved this certificate can take additional courses to earn an Associate of Convergence Management.

Degree Awarded: Certificate of Achievement

Certificate Requirements Credit Hours: 24

Business 3 hours
BUSN 1053 Introduction to Business

Computer Information Systems 9 hours
*CSYS 2563 Enterprise Security
CSCI 1203 Computer Concepts and Applications
*CSCI 1263 Networking Fundamentals

Information Technologies Convergence 9 hours
*ITCV 1033 Introduction to Voice Communications and Convergence Fundamentals
*ITCV 2023 Wireless Networking
*ITCV 2063 VoIP & Convergence Technologies

Management 3 hours
MGMT 1353 Management Essentials or
MGMT 2363 Principles of Management

Total Credit Hours: 24
*Course has prerequisite (See course description section of catalog).
MANAGEMENT:

General Management

Program Description:
The General Management option will prepare students for a wide range of management positions. For managers already in the business world, this option will equip them with the additional management skills they need, and hone the skills they already possess. This option will help managers succeed in their current positions and prepare them for further career advancement. Major focus of this option is on improving decision-making processes, learning how to motivate members of a team, and developing new techniques to resolve conflicts.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Divisions:
Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Northeast: (918) 595-7527,
Southeast: (918) 595-7651

This program is offered at the Northeast Campus, the Southeast Campus, and on-site at corporations and organizations in the greater Tulsa area.

General Education Requirements Credit Hours: 18

Economics 3 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 27

Accounting 6 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications
or
CSCI 1011 Introduction to Microcomputers
and select two one credit hour software courses.

Management 18 hours
MGMT 2323 Organizational Behavior
*MGMT 2353 Business Policy
and select one course from the following:
MGMT 1353 Management Essentials
MGMT 2363 Principles of Management

and select one course from the following:
*MGMT 1373 Human Resources Management
*MGMT 2413 Global Management
*MGMT 2423 Entrepreneurship Management

and select an additional 6 credit hours of Management courses.
MGMT 1233 Health Care Management
*MGMT 2103 Workforce Development Internship
MGMT 2123 Leadership Development
*MGMT 2403 Critical Thinking for Results

Controlled Electives Credit Hours: 15
Electives must be chosen in relation to the student’s occupational/educational goal and approved by the program instructor.

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

GENERAL BUSINESS:

Management Certificate

Program Description:
The General Management option will prepare students for a wide range of management positions. For managers already in the business world, this option will equip them with the additional management skills they need, and hone the skills they already possess. This option will help managers succeed in their current positions and prepare them for further career advancement. Major focus of this option is on improving decision-making processes, learning how to motivate members of a team, and developing new techniques to resolve conflicts.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Divisions:
Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Northeast: (918) 595-7527,
Southeast: (918) 595-7651

This program is offered at the Northeast Campus, the Southeast Campus, and on-site at corporations and organizations in the greater Tulsa area.

Certificate Requirements Credit Hours: 30

Accounting 3 hours
ACCT 2213 Financial Accounting
Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications
or
CSCI 1011 Introduction to Microcomputers
and select two one credit hour software courses.

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Management 18 hours
*MGMT 2323 Organizational Behavior
*MGMT 2353 Business Policy
and select one course from the following:
MGMT 1353 Management Essentials
MGMT 2363 Principles of Management

Management 12 hours
*MGMT 2323 Organizational Behavior
*MGMT 2353 Business Policy
*MGMT 2413 Global Management
and select one 3 credit hour course from the following:
MGMT 2363 Principles of Management
MGMT 2403 Critical Thinking for Results

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).

MANAGEMENT
International Management

Program Description:
If you are employed by a Tulsa company with global operations, the International Management option is just what you need for a successful career. This option concentrates on general business and management practices that are critical for companies competing in the international marketplace. Areas of emphasis include critical thinking, communications, decision-making, motivational techniques and conflict resolution. Special emphasis is also placed on expanding cultural knowledge and helping to develop the language skills needed to communicate with those of other cultures.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and information Technology Divisions:
Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Northeast: (918) 595-7527,
Southeast: (918) 595-7651

This program is offered at the Northeast Campus, the Southeast Campus, and on-site at corporations and organizations in the greater Tulsa area.

General Education Requirements Credit Hours: 15
Economics 3 hours
ECON 2013 Principles of Macroeconomics
English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications
Social Science 6 hours
POLS 1113 American Federal Government

Specialized Course Requirements Credit Hours: 33
Accounting 3 hours
ACCT 2213 Financial Accounting
Business 6 hours
**BUSN/SPCH 2053 Intercultural Communication
*ECON 2123 International Economic Issues
Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications
or
CSCI 1011 Introduction to Microcomputers
and select two one credit hour software courses.
Foreign Language 6 hours
Select a total of 6 credit hours from one foreign language discipline.
Management 12 hours
*MGMT 2323 Organizational Behavior
*MGMT 2353 Business Policy
*MGMT 2413 Global Management
and select one 3 credit hour course from the following:
MGMT 2363 Principles of Management
MGMT 2403 Critical Thinking for Results
Marketing 3 hours
*MKTG 2813 International Marketing

Controlled Electives Credit Hours: 12
Electives must be chosen in relation to the student’s occupational/educational goal and approved by the instructor. It is advised that elective courses be related to an international topic.

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
** Course can serve as either a BUSN or SPCH Credit. Students should choose either the BUSN or SPCH Discipline when enrolling.

MANAGEMENT
International Management Certificate

Program Description:
If you are employed by a Tulsa company with global operations, the International Management option is just what you need for a successful career. This option concentrates on general business and management practices that are critical for companies competing in the international marketplace. Areas of emphasis include critical thinking, communications, decision-making, motivational techniques and conflict resolution. Special emphasis is also placed on expanding cultural knowledge and helping to develop the language skills needed to communicate with those of other cultures.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and information Technology Divisions:
Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Northeast: (918) 595-7527,
Southeast: (918) 595-7651
This program is offered at the Northeast Campus, the Southeast Campus, and on-site at corporations and organizations in the greater Tulsa area.

Certificate Requirements Credit Hours: 33

Business 6 hours
**BUSN/SPCH 2053 Intercultural Communication
ECON 2123 International Economic Issues

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Foreign Language 6 hours
Select a total of 6 credit hours from one foreign language discipline.

Management 12 hours
*MGMT 2323 Organizational Behavior
*MGMT 2353 Business Policy
*MGMT 2413 Global Management
and select one 3 credit hour course from the following:
MGMT 2363 Principles of Management
MGMT 2403 Critical Thinking for Results

Marketing 3 hours
*MKTG 2813 International Marketing

Total Credit Hours: 33
*Course has prerequisite (See course description section of catalog).
**Course can serve as either a BUSN or SPCH Credit. Students should choose either the BUSN or SPCH Discipline when enrolling.

Program Description:
Learning to do, doing to learn. That's the essence of the Management Internship option, designed not only to help students develop the managerial skills they must have to prosper in today's business world, but also to practice those skills in their own business setting. This option combines formal classroom study with a student-internship project at the student's place of employment. This option is recommended for current managers who wish to advance and need additional management training, those recently promoted to managerial positions, or those who have been identified by their employer as having managerial potential.

Degree Awarded: Associate in Applied Science
This program is offered at the Northeast Campus, the Southeast Campus, and on-site at corporations and organizations in the greater Tulsa area.

Admission to the Program:
Fulfill all admission requirements to Tulsa Community College. Arrange an advisement meeting with a program instructor and discuss the requirements for the internship classes.

General Education Requirements Credit Hours: 18
Economics 3 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 30
Accounting 3 hours
ACCT 2213 Financial Accounting

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications
or
CSCI 1011 Introduction to Microcomputers
and select two 1 credit hour software courses.

Management 24 hours
**MGMT 1343 Management Internship I
**MGMT 1363 Management Internship II
**MGMT 2303 Management Internship III
*MGMT 2323 Organizational Behavior
**MGMT 2343 Management Internship IV
*MGMT 2353 Business Policy
and select one course from the following:
MGMT 1353 Management Essentials
MGMT 2363 Principles of Management

Controlled Electives Credit Hours: 12
*MGMT 2403 Critical Thinking for Results
Nine hours of additional electives must be chosen in relation to the student's occupation/educational goal and approved by the program instructor.

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
**All students in this program must contact a Management Program instructor prior to enrolling in one of the Management Internship courses.
MANAGEMENT
Internship Certificate

Program Description:
Learning to do, doing to learn. That’s the essence of the Management Internship option, designed not only to help students develop the managerial skills they must have to prosper in today’s business world, but also to practice those skills in their own business setting. This option combines formal classroom study with a student-internship project at the student’s place of employment. This option is recommended for current managers who wish to advance and need additional management training, those recently promoted to managerial positions, or those who have been identified by their employer as having managerial potential.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Divisions:
Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Northeast: (918) 595-7527, Southeast: (918) 595-7651

This program is offered at the Northeast Campus, the Southeast Campus, and on-site at corporations and organizations in the Greater Tulsa area.

Certificate Requirements Credit Hours: 30

English 6 hours
*ENGL 1113 Freshman Composition I
and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Management 24 hours
**MGMT 1343 Management Internship I
**MGMT 1363 Management Internship II
**MGMT 2303 Management Internship III
*MGMT 2323 Organizational Behavior
**MGMT 2343 Management Internship IV
*MGMT 2353 Business Policy

and select one course from the following:
MGMT 1353 Management Essentials
MGMT 2363 Principles of Management

and select one course from the following:
*MGMT 1373 Human Resources Management
*MGMT 2413 Global Management
*MGMT 2423 Entrepreneurship Management

Total Credit Hours: 30
*Course has prerequisite (See course description selection of catalog).
**All students in this program must contact a Management Program instructor prior to enrolling in one of the Management Internship courses.

MARKETING
Northeastern State University Transfer Option

Program Description:
This program is designed to provide the student with fundamental skills, attitudes, and experience in Marketing, Communication, Customer Service, Consumer Behavior and Sales. The curriculum includes core courses that students are required to complete in the first two years of marketing study. Students will be provided with the necessary skills to obtain employment in a marketing position. Graduates of this program will be prepared to continue course work toward a baccalaureate degree in any of the options within the Marketing program at Northeastern State University.

Degree Awarded: Associate in Science

For More Information:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: (918) 595-7651

General Education Requirements Credit Hours: 37-38

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

with the necessary skills for success in the business world, and help perfect the skills they already possess. This option will help managers and leaders succeed in their current positions, and prepare them for further career advancement. This option is designed to provide the human, practical, and conceptual skills necessary to successfully manage and lead organizations in the 21st Century.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Divisions:
Northeast: (918) 595-7439, Southeast: (918) 595-7639
Counseling Centers: Northeast: (918) 595-7527, Southeast: (918) 595-7651

This program is offered at the Northeast Campus, Southeast Campus, corporations, and organizations in the Greater Tulsa area.

Certificate Requirements Credit Hours: 15

Management 15 hours
*MGMT 1373 Human Resources Management
and select one course from the following:
MGMT 1233 Health Care Management
MGMT 1353 Management Essentials
MGMT 2363 Principles of Management

and select one course from the following:
*MGMT 2123 Leadership Development
*MGMT 2323 Organizational Behavior

and select two additional courses from the following:
MGMT 1334 Management Internship
MGMT 2103 Workforce Development Internship
MGMT 2123 Leadership Development
*MGMT 2353 Business Policy
MGMT 2403 Critical Thinking for Results

Total Credit Hours: 15
*Course has prerequisite (See course description selection of catalog).
MARKETING
Oklahoma State University - Transfer Option

Program Description:
This program is designed to provide the student with fundamental skills, attitudes, and experience in Marketing, Communication, Customer Service, and Sales. Graduates of the program will be prepared to continue coursework toward a baccalaureate degree in any of the options within the Marketing program at Oklahoma State University.

Degree Awarded: Associate in Science

For More Information:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: (918) 595-7651

General Education Requirements Credit Hours: 37

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Science 7 hours
Select one 4-hour course from the following:
*PHSC 1114 General Physical Science
*CHEM 1114 Principles of Chemistry
GEOL 1014 General Geology
BIOL 1114 General Biology for Non-Majors
*BIOL 1604 Zoology
and any 3 hours of General Education courses designated as science

Social Sciences 9 hours
GEOG 1043 Introduction to Cultural Geography
POLS 1113 American Federal Government
and select one from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Required Electives 6 hours
Select two courses from the following disciplines:
Psychology, Social Science, Foreign Language, Fine Arts

Specialized Course Requirements Credit Hours: 27

Accounting 6 hours
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting

Economics 6 hours
ECON 2013 Principles of Macroeconomics
*ECON 2023 Principles of Microeconomics

Marketing 12 hours
MKTG 1313 Sales and Negotiations
*MKTG 2363 Consumer Behavior
MKTG 2423 Principles of Marketing
and select one course from the following:
MKTG 2343 Customer Service
*MKTG 2393 Advertising and Promotion Management

Total Credit Hours: 67-68

*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
## BUSINESS: MARKETING

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<td><strong>Speech</strong></td>
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<td></td>
<td>*MKTG 2393 Advertising and Promotion</td>
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</table>

**Total Credit Hours:** 64

*Course has a prerequisite (see course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

### MARKETING: Apparel Design and Merchandising OSU - Stillwater Transfer

**Program Description:**
Apparel Design and Merchandising degrees include the study of Marketing Principles, Drawing, Fashion Innovation Design, and Product Development. Further study of Human Development, Psychology, Sociology and Leadership are included. The curriculum includes courses generally completed in the first two years in a four-year curriculum. This program curriculum is designed to prepare students to transfer to Oklahoma State University to complete a baccalaureate degree in Apparel Design or Merchandising.

**Degree Awarded:** Associate in Science

**General Education Requirements Credit Hours:** 37-38

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>6</td>
<td>*ENGL 1113 Freshman Composition I</td>
</tr>
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<td></td>
<td>*ENGL 1213 Freshman Composition II</td>
</tr>
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<td><strong>Social Science</strong></td>
<td>6</td>
<td>*HIST 1483 U.S. History 1492 to Civil War Era</td>
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<tr>
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<td>and select one course from the following:</td>
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<tr>
<td></td>
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<td>*HIST 1493 U.S. History Civil War Era to Present</td>
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<td></td>
<td></td>
<td>*POLS 1113 American Federal Government</td>
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<tr>
<td><strong>Science</strong></td>
<td>7-8</td>
<td>select one course from the following:</td>
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<tr>
<td></td>
<td></td>
<td>*CHEM 1034 Practical Chemistry</td>
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<td>*CHEM 1114 Principles of Chemistry</td>
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<td></td>
<td>or</td>
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<td></td>
<td></td>
<td>*CHEM 1315 General Chemistry I</td>
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<tr>
<td><strong>Human Development</strong></td>
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<td>and select one course from the following:</td>
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<tr>
<td></td>
<td></td>
<td>*CHLD 2003 Child Development and Parenting</td>
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<td>*HSVC 2023 Lifespan Development Within A Family Perspective</td>
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<tr>
<td></td>
<td></td>
<td>*PSYC 2023 Developmental Psychology</td>
</tr>
<tr>
<td><strong>Marketing</strong></td>
<td>6</td>
<td>Select One Option from either Apparel Design or Merchandising 6 hours</td>
</tr>
<tr>
<td><strong>Art</strong></td>
<td>3</td>
<td>*ART 1013 Fundamentals of Art I</td>
</tr>
<tr>
<td><strong>Computer Science</strong></td>
<td>3</td>
<td>*CSCI 1203 Computer Concepts and Applications</td>
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<tr>
<td><strong>Sociology</strong></td>
<td>3</td>
<td>*SOCI 1113 Introduction to Sociology</td>
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<tr>
<td><strong>Management</strong></td>
<td>3</td>
<td>*MGMT 2123 Leadership Development</td>
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<tr>
<td><strong>Marketing</strong></td>
<td>6</td>
<td>*MKTG 1313 Sales and Negotiations</td>
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<tr>
<td></td>
<td></td>
<td>*MKTG 2423 Principles of Marketing</td>
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<tr>
<td><strong>Human Development</strong></td>
<td>3</td>
<td>and select one course from the following:</td>
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<td>*CHLD 2003 Child Development and Parenting</td>
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<tr>
<td></td>
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<td>*HSVC 2023 Lifespan Development Within A Family Perspective</td>
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<tr>
<td><strong>Select One Option from either</strong></td>
<td>6</td>
<td>*MKTG 1313 Sales and Negotiations</td>
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<tr>
<td><strong>Apparel Design</strong></td>
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<td>*ART 1123 Drawing I</td>
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<tr>
<td><strong>Apparel Merchandising</strong></td>
<td>3</td>
<td>*ACCT 2213 Financial Accounting</td>
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<td><strong>Marketing</strong></td>
<td>6</td>
<td>and select one of the following:</td>
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<td></td>
<td></td>
<td>*MKTG 1313 Sales and Negotiations</td>
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<tr>
<td></td>
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<td>*MKTG 2343 Customer Service</td>
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</tbody>
</table>

**Total Credit Hours:** 64-65

*Course has a prerequisite (See course description section of the catalog). Students are encouraged to take MATH 2193 Elementary Statistics. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency.

**To be accepted into the junior level professional apparel design program at Oklahoma State University, all students must pass the OSU portfolio review process. Therefore, all are and design projects should be saved.**

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Southeast Campus: (918) 595-2215 • West Campus: (918) 595-8176

www.tulsacc.edu/careerservices
MARKETING

Program Description:
This program is designed to provide students the opportunity to engage in a hands-on approach to marketing. Participants of this program learn the essentials of marketing, how to create professional sales presentations, develop advertising campaigns, write press releases, develop marketing websites, conduct market research and much more. This program is designed to prepare the student for successful employment in a marketing position. The marketing job market remains strong with high salary potential. Graduates of the program qualify for many marketing career opportunities including assistant buyer, customer service consultant, data analyst, event coordinator, marketing assistant, project manager, sales representative, and telemarketing representative. The program also allows for marketing internship opportunities.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

General Education Requirements Credit Hours: 18

Economics 3 hours
select one course from the following:
ECON 1353 Personal Finance
ECON 2013 Principles of Macroeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2343 Business Communications

Mathematics 3 hours
Select one course from the following:
*MATH 1513 College Algebra
BUSN 1353 Business Mathematics

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 30

Accounting 3 hours
ACCT 2213 Financial Accounting

Business and Management 9 hours
BUSN 1053 Introduction to Business
MGMT 2123 Leadership Development
MGMT 2363 Principles of Management

Computer Information Systems 3 hours
Select 3 credit hours from any Computer Information Systems (CSYS/CSCI) courses.

Marketing 15 hours
MKTG 1313 Sales and Negotiations

MKTG 2343 Customer Service
*MKTG 2363 Consumer Behavior
*MKTG 2393 Advertising and Promotion Management
MKTG 2423 Principles of Marketing

Controlled Electives Credit Hours: 12
APPR 1203 Apprenticeship
APPR 1306 Apprenticeship I
*ACCT 2223 Managerial Accounting
BUSN 1143 Introduction to Ethics: Business Issues
*CSYS 1033 Adobe Photoshop
*CSCI 1711 Introduction to PowerPoint
*MGMT 2103 Workforce Development Internship
MKTG 1333 Fashion Innovation and Marketing
MKTG 1371 Introduction to Customer Service
MKTG 1381 Marketing on the Internet
* **MKTG/CSYS 1393 Web Design & Marketing
MKTG 1403 Marketing Internship I
MKTG/CSYS 1443 Electronic Commerce
MKTG 2433 Product Development
*MKTG 2813 International Marketing

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
** Course can serve as either a MKTG or CSYS Credit. Students should choose either the MKTG or CSYS Discipline when enrolling.

MARKETING

Customer Service Certificate

Program Description:
This program provides students with an overall understanding of multiple marketing elements. Students will have the opportunity to expand their understanding of customer service, professional sales, consumer behavior, and advertising. This program gives students the necessary skills to gain employment in a marketing position and to excel in this dynamic aspect of business.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

Certificate Requirements Credit Hours: 30

Business 3 hours
BUSN 1053 Introduction to Business

Computer Information Systems 3 hours
Select 3 credit hours from any Computer Information Systems (CSCI/CSYS) courses.

English 3 hours
Select one course from the following:
*ENGL 1113 Freshman Composition I
*BUSN 2343 Business Communications

Management 6 hours
MGMT 2123 Leadership Development
MGMT 2363 Principles of Management
Marketing 15 hours
MKTG 1313 Sales and Negotiations
MKTG 2343 Customer Service
*MKTG 2363 Consumer Behavior
*MKTG 2393 Advertising and Promotional Management
MKTG 2423 Principles of Marketing

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).

MARKETING
Disney Internship Option

Program Description:
This program is designed to develop fundamental skills, knowledge, attitudes, and experiences needed to function in industrial, retailing, hospitality, international, or customer service marketing positions. This option allows students the opportunity to participate for one semester in the Disney internship program in Orlando, Florida. Students must meet all the requirements to be accepted into the Disney program. Students must also meet with a full-time Marketing instructor to gain up to 9 hours credit for their internship experience.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

General Education Requirements Credit Hours: 18
Economics 3 hours
Select one course from the following
ECON 1353 Personal Finance
ECON 2013 Principles of Macroeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2343 Business Communications

Mathematics 3 hours
Select one course from the following:
*MATH 1513 College Algebra
BUSN 1353 Business Mathematics

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42
Accounting 3 hours
ACCT 2213 Financial Accounting

Business 3 hours
BUSN 1053 Introduction to Business

Computer Information Systems 3 hours
Select 3 credit hours from any Computer Information Systems (CSYS/CSCI) courses.

Management 6 hours
MGMT 2123 Leadership Development
MGMT 2363 Principles of Management

Marketing 24 hours
MKTG 1313 Sales and Negotiations
MKTG 2343 Customer Service
*MKTG 2363 Consumer Behavior
*MKTG 2393 Advertising and Promotion Management
MKTG 2423 Principles of Marketing
**MKTG 1403 Marketing Internship I
**MKTG 1423 Marketing Internship II
**MKTG 1433 Marketing Internship III

Controlled Electives 3 hours
MKTG 1333 Fashion Innovation and Marketing
*MKTG 1393 Web Design and Marketing
MGMT 1443 Electronic Commerce
MGMT 2433 Product Development
*MKTG 2813 International Marketing

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
** Students should work with a full-time Marketing instructor to plan their course of study.

MARKETING
E-Business

Program Description:
E-Business Marketing is a fast growing element of the business world. This program is designed to develop fundamental principles of marketing, sales, advertising, customer service, and Internet marketing. This curriculum includes the traditional elements of marketing as well as preparing the student to conduct marketing on the Internet. The course of study includes multiple elements of Computer Information Systems and E-Business Marketing. This program is designed for the student who wants to learn the marketing skills related to E-Business, develop marketing websites, or enhance an existing business with an internet element. Students could qualify for employment in marketing or website design, or as a web master.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

General Education Requirements Credit Hours: 15
Economics 3 hours
ECON 2013 Principles of Macroeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2343 Business Communications

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 42
Accounting 3 hours
ACCT 2213 Financial Accounting

Business 3 hours
BUSN 1053 Introduction to Business

Computer Information Systems 3 hours
Select 3 credit hours from any Computer Information Systems (CSYS/CSCI) courses.

E-Business 3 hours
ECON 2013 Principles of Macroeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2343 Business Communications

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 45

Business 3 hours
BUSN 1053 Introduction to Business

Computer Information Systems 6 hours
*CSYS 1033 Adobe Photoshop
CSCI 1203 Computer Concepts and Applications

Marketing & Computer Information Systems 6 hours
*MKTG/CSYS 1393 Web Design & Marketing
*MKTG/CSYS 1443 Electronic Commerce

Marketing 12 hours
MKTG 1313 Sales and Negotiations
MKTG 2343 Customer Service
*MKTG 2393 Advertising and Promotion Management
MKTG 2423 Principles of Marketing

Management 6 hours
MGMT 2123 Leadership Development
MGMT 2363 Principles of Management

Controlled Electives 12 hours
Select 12 hours from the following:
ACCT 2213 Financial Accounting
*ACCT 2223 Managerial Accounting
*CSYS 1013 XHTML
*CSYS 2153 Advanced XHTML Technologies
*CSCI 2163 Windows Operating Systems
*CSCI 2483 PowerPoint/Multimedia
MKTG 1403 Marketing Internship I
*MKTG 2363 Consumer Behavior
*MKTG 2423 Entrepreneurship Management
MKTG 2433 Product Development
*MKTG 2813 International Marketing

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).

MARKETING
E-Business Certificate

Program Description:
This certificate program includes all the fundamental elements of marketing as well as multiple elements of Computer Information Systems. Students will develop skills in customer service, professional sales, consumer behavior, advertising, and marketing principles. Students will develop skills in web-based application and website administration as well as learning some programming languages. This program provides students with fundamental marketing skills as well as the tools necessary to create marketing websites on the Internet. Students will gain the skills to be eligible for employment in a marketing or website development position.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Business and Information Technology Division:
Southeast: (918) 595-7639
Counseling Center: Southeast: (918) 595-7651

Certificate Requirements Credit Hours: 30

Marketing 12 hours
MKTG 1313 Sales and Negotiations
MKTG 2343 Customer Service
*MKTG 2393 Advertising and Promotion Management
MKTG 2423 Principles of Marketing

Computer Information Systems 6 hours
*CSYS 1033 Adobe Photoshop
CSCI 1203 Computer Concepts and Applications

Management 6 hours
MGMT 2123 Leadership Development
MGMT 2363 Principles of Management

Marketing/Computer Information Systems 6 hours
*MKTG 1393 Web Design & Marketing
*MKTG 1443 Electronic Commerce

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).
Community Services Area of Study

**AA: Associate in Arts, university transfer degree • AS: Associate in Science, university transfer degree**

**AAS: Associate in Applied Science, workforce degree • CER: Certificate of Achievement**

**University transfer degree programs** include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

**Workforce development degree and certificate programs** are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

**Child Development and Early Childhood Education**

- Child Development, Child Care Administration OSU option, AS
- Early Childhood Education Langston option, AS
- Early Childhood Education OSU option, AS
- Early Childhood Education OU option, AS
- Child Development options in:
  - Center Director, AAS
  - Child & Family, OSU option, AS
  - Child Development Certificate of Mastery, CER
  - Child Development Credential Preparation (CDA), CER
  - Early Childhood, AAS
  - Head Start Credential, CER
  - Infant Toddler, AAS
  - Infant/Toddler Certificate of Mastery, CER
  - Middle Childhood, AAS
  - Residential Child and Youth Professional, CER
  - Youth Development Certificate, CER
  - Youth Development Certificate of Mastery, CER
  - Teacher Assistant, AAS

**Education**

- Education, AA:
  - Elementary Education, AA / Secondary Education, AA / Elementary Education LU option, AA
- Health & Human Performance, AS
  - Health & Human Performance OSU option, AS
- Interpreter Education, UALR option, AS
- Interpreter Education, AAS/CER
- Physical Education, AS

**Human Services**

- Human Services, AS/AAS/CER
- Additional options:
  - Child & Family Services OSU option, AS
  - Human Development St. Gregory option, AS
  - Human Relations OU option, AS
  - Pre-Social Work NSU/ORU/OU option, AS
  - Therapeutic Recreation OSU option, AS
  - Chemical & Alcohol Dependency Counseling, AAS
  - Community Services Management, AAS
  - Corrections, AAS
  - Developmental Disabilities, AAS
  - Direct Support Professional, CER
  - Family Studies SNU option, AAS
  - Gerontology, AAS

**Law, Public Administration and Safety and Corrections**

- Criminal Justice, AA
- Emergency Medical Technology, AAS
- Fire & Emergency Services, AS/CER
- FESR Emergency & Community Preparedness, CER
- Law Enforcement, AAS
- Law Enforcement Collegiate Officer, AAS
- Paralegal, AA/AAS (Political Science see Arts & Communications, Liberal Arts & Social Sciences)
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

CHILD DEVELOPMENT
Early Care, OSU Transfer Option

Program Description:
This curriculum includes degree requirements and courses generally completed in the first two years of a four-year degree plan. This degree is for students wanting a professional career in early care and education. Career choices include Head Start, Early Head Start, child care, infant-toddler, and preschool teacher as well as other early care and education professional positions. Students in this degree plan should plan to take the Oklahoma General Education Test during the last semester at TCC.

NOTE: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for the $15 fee and returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify student that he/she may enroll in Child Development laboratory courses.

(A) Students in this degree option who plan to transfer to OSU-Tulsa and who have a CDA certificate of achievement from TCC with a letter grade of "C" or better in each of the certificate courses, should check with the academic advisor at OSU-Tulsa for potential transfer credit of 8 hours toward the Child Care Administration Bachelor of Science degree at Oklahoma State University.

(B) Students by have taken the Oklahoma General Education Test before transferring to OSU-Tulsa.

(C) TCC students graduating with this transfer degree option must take the following OSU junior level courses at the OSU-Tulsa Campus: HDFS 3213, HDFS 3223, HDFS 3201 and HDFS 3103.

Degree Awarded: Associate in Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program:
West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 31

Recommended electives satisfied in specialized course requirements.

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See General Education Requirement page for complete list.

Mathematics 3 hours
Select three credit hours from the following:
*MATH 1473 Mathematics for Critical Thinking
*MATH 1483 Mathematical Functions and their Uses
*MATH 1513 College Algebra

Science 7 hours
BIOL 1383 Nutrition
See the General Education Requirements to select a lab science course.

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 29

Mathematics 3 hours
*MATH 2193 Elementary Statistics

Recommended Electives 2-3 hours
CHLD 2003 Child Development in the Lifespan
^*CHLD 2103 Child Guidance
^*CHLD 2113 Child Care Center Management I
^*CHLD 2223 Early Childhood Foundations
^*CHLD 2233 Physical Development and Creative Expression:

Early Childhood
^*CHLD 2313 Child Care Center Management II
^*CHLD 2513 Programming for Infants and Toddlers

Total Credit Hours: 60

*Course has prerequisite (See course description section of TCC catalog).
**Course must be completed with a "C" or better.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

CHILD DEVELOPMENT
Early Care, NSU Transfer Option

Program Description:
This curriculum includes degree requirements and courses generally completed in the first two years of a four-year curriculum plan in Family and Consumer Sciences at Northeastern State University. This degree is for students wanting a professional career working in community agencies and programs providing services to children, youth, and families. Career options include Head Start programs, childcare,
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

university extension agents, middle and high school teachers, parent educators, as well as other choices. Students should consult the Northeastern State University transfer catalog and carefully select courses that will meet the requirements for both the baccalaureate and associate degree programs. Suggested courses are listed in this curriculum plan.

NOTE: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office L-144 at TCC West Campus. Students are responsible for the $15 fee and for returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify the student that he/she may enroll in (CHLD 2223) Child Development laboratory courses. Those individuals seeking teacher certification should immediately consult with the NSU College of Education for additional requirements.

Degree Awarded: Associate in Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program:
West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 41-42

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Geography 3 hours
GEOG 1043 Introduction to Cultural Geography

Humanities 6 hours
See the General Education Requirements to select 6 hours of Humanities.

Mathematics 3 hours
See General Education Requirement page for complete list.

Science 11-12 hours
BIOL 1114 General Biology for Non-Majors
BIOL 1383 Nutrition
and select one course from the following:
*PHSC 1114 General Physical Science
*CHEM 1315 General Chemistry
ASTR 1104 General Astronomy
*PHYS 1114 General Physics I

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

Specialized Course Requirements Credit Hours: 21

Child Development
^CHLD 2003 Child Development in the Lifespan
^18 Additional hours (select any course with CHLD in the prefix)

Controlled Electives Credit Hours: 3
INTD 1313 Interior Design Orientation
or
*INTD 2313 Professional Practice

Total Credit Hours: 65-66
*Course has prerequisite (See course description section of TCC catalog).
^Course must be completed with a “C” or better.

Students should be aware that any variation in this degree plan might result in hours that will not transfer to NSU. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

CHILD DEVELOPMENT
Child and Family, OSU Transfer Option

Program Description:
This curriculum includes degree requirements and courses generally completed in the first two years of a four-year curriculum. This degree is for students wanting a professional career working in community agencies and programs providing services to children and families. Career paths include child life specialist, family life educator, pre medicine, pre-law, child policy and advocacy and other options. Students should consult the Oklahoma State University transfer catalog and carefully select courses that will meet the requirements for both the baccalaureate and associate degree programs. Suggested courses for Oklahoma State University are listed in the curriculum. Students should consult the Family Relations and Child Development counselor at the OSU-Tulsa Campus to select electives that will meet requirements for the baccalaureate degree tracks in the College of Human Environmental Sciences at Oklahoma State University.

NOTE: Students in this degree option who plan to transfer to OSU-Tulsa and who have a CDA certificate of achievement from TCC with a letter grade of “C” or better in each of the certificate courses, should check with the academic advisor at OSU-Tulsa for potential transfer credit of 8 hours toward the Child and Family Services Bachelor of Science degree.

NOTE: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for the $15 fee and for returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify the student that he/she may enroll in Child Development laboratory courses.

Degree Awarded: Associate in Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program,
West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

General Education Requirements Credit Hours: 37

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See General Education Requirement page for complete list.

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Science 7 hours
BIOL 1383 Nutrition
See the General Education Requirements to select a lab science course.

Social and Behavioral Sciences 3 hours
SOCI 1113 Introduction to Sociology
PSYC 1113 Introduction to Psychology
Any course designated as a social science in the OSU Transfer Guide.

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 15

Child Development
^CHLD 2003 Child Development in the Lifespan
^CHLD 2023 Child Development and Parenting
^CHLD 2103 Child Guidance
^CHLD 2203 Child and Family in the Community
^CHLD 2213 Children with Special Needs

**Recommended Electives Credit Hours: 8
CSCI 1203 Computer Concepts and Applications
PSYC Select any courses
SOCI Select any courses
See Note (A) under Program Description

Total Credit Hours: 60
*Course has prerequisite (See course description section of TCC catalog).
**Students should consult the Family Relations and Child Development counselor at the OSU-Tulsa Campus to select electives that will meet requirements for the baccalaureate degree tracks in Child and Family Services at Oklahoma State University.
^Course must be completed with a “C” or better.
^Course may be repeated for credit.
^Course is required for Oklahoma Teacher Certification.

CHILD DEVELOPMENT Education Programs

NOTE:
(A) All Teacher Education majors are required to take the OGET (Oklahoma General Education Test) prior to admission to professional education programs at the university. Please visit the Counseling Center at any campus for information about the OGET.

(B) Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for the $15 fee and for returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify that student that he/she may enroll in Child Development laboratory courses.

(C) National Council for Accreditation of Teacher Education (NCATE) is the national accrediting program for teacher education. The council requires that students in teacher education programs at 4-year colleges complete a portfolio. Students in Child Development or Education degree programs at Tulsa Community College should save all assignments from those courses for possible inclusion in the portfolio. Contact the college where you plan to transfer for specific portfolio requirements.

(D) Prior to graduation from a 4-year college or university, students must complete (with a grade of “C” or higher) a minimum of:
12 hours of Communication Arts
12 hours of Social Science
12 hours of Math
12 hours of Science
Demonstrate Proficiency in a language other than English.

(E) Students should be aware that any variation in this degree plan might result in hours that will not transfer to named university.

(F) To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

CHILD DEVELOPMENT Education - LU Transfer Option

Program Description:
This curriculum includes degree requirements and courses generally completed in the first two years of a four-year curriculum. The degree is for students who want to receive Oklahoma Teacher Certification and teach at the early childhood level. Students should work with an academic counselor at Tulsa Community College West Campus to carefully select courses that will meet the Langston baccalaureate and the TCC associate degree programs. Students in this degree plan should take the Oklahoma General Education Test during the last semester at TCC. Upon completion of the four-year curriculum at Langston, a student will be prepared to apply for an Oklahoma Teacher Certificate in
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

Early Childhood Education. A grade of “C” or better is required in the coursework for this curriculum and students must maintain a 2.5 GPA to graduate from Langston University.

Degree Awarded: Associate in Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 35
Two (2) additional credit hours of General Education Requirements are satisfied in specialized course requirements.

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See General Education Requirement page for complete list.

Mathematics 3 hours
See General Education Requirement page for complete list.

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Science 8 hours
*PHSC 1114 General Physical Science
BIOL 1114 General Biology for Non-Majors
(Courses in Physics, Chemistry, Zoology may be substituted.
One of the courses must have a lab.)

Social Science 6 hours
POLS 1113 American Federal Government
and select 1 of the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 16
^CHLD 2003 Child Development in the Lifespan
^CHLD 2031 Early Field Experience
^*CHLD 2103 Child Guidance
^CHLD 2133 Middle Childhood Foundations
^*CHLD 2173 Historical & Philosophical Foundations of Schools
^*CHLD 2223 Early Childhood Foundations

Recommended Electives Credit Hours 9
Select 9 hours from the following:
CSCI 1203 Computer Concepts and Applications
ENGL 1003 Strategies for Academic Success
GEOG 1043 Introduction to Cultural Geography
MATH 2423 Mathematics Concepts for Educators
*MATH 2553 Geometry and Measurement
SPCH 2103 Interpersonal Communication

Foreign Language 0-6 hours
Students must meet the university requirement of two college-level courses in a single foreign language or successful completion of 2 years of foreign language in high school and pass a proficiency test.

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
^ Course must be completed with a “C” or better.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
To receive an A. A. or A. S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Note: Prior to graduation from a 4-year college or university, students majoring in Early Childhood, Elementary Education or Special Education must complete (With a grade of “C” or higher) a minimum of:
12 hours in Communication Arts
12 hours in Social Science
12 hours in Math
12 hours in Science
Demonstrate Proficiency in a language other than English

CHILD DEVELOPMENT
Early Childhood Education - OSU Transfer Option

Program Description:
This curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. This degree is for those students who want to teach preschool and primary grade children. Students should consult the Oklahoma State University transfer guide and carefully select courses that will meet the requirements for both the baccalaureate and associate degree programs. Suggested courses for Oklahoma State University are listed in the curriculum. Upon completion of the four-year degree at OSU, students will be prepared to apply for an Oklahoma Teacher's Certificate in Early Childhood Education.

Degree Awarded: Associate in Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 50

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Foreign Language 9 hours
Select 9 hours from one language:
CHI, FRE, GER, JPN, RUS, SPAN, INTD

Geography 3 hours
Select 3 credit hours from the following:
GEOG 2033 World Regional Geography
GEOG 1043 Introduction to Cultural Geography

Humanities 6 hours
*ENGL 2413 Introduction to Literature
and one of the following:
HUMN 2113 Humanities I
HUMN 2223 Humanities II
Art 1113 Art Appreciation
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

MUSC 1113 Music Appreciation

Mathematics 6 hours
*MATH 1513 College Algebra
*and one of the following
*MATH 2193 Elementary Statistics
*MATH 1473 Mathematics for Critical Thinking
*MATH 1483 Mathematics Functions and Their Uses
*MATH 1613 Plane Trigonometry
*MATH 2193 Elementary Statistics
*MATH 2523 Calculus for Business, Life, and Social Sciences

Science 11 hours
BIOL 1114 General Biology for Non-Majors
BIOL 1383 Nutrition
*PHSC 1114 General Physical Science

Social Science 6 hours
POL 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 13

Child Development
^CHLD 2003 Child Development in the Lifespan
^CHLD 2031 Early Field Experience
^CHLD 2223 Early Childhood Foundations
^CHLD 2233 Physical Development and Creative Expression: Early Childhood
^CHLD 2513 Programming for Infants and Toddlers

Total Credit Hours: 63
*Course has prerequisite (See course description section of TCC catalog).
^Course must be completed with a "C" or better.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

Child Development
Early Childhood Education - OU Transfer Option

Program Description:
This curriculum includes degree requirements and courses generally completed in the first two years of a four-year curriculum. This degree is for students who want to teach infants through third grade children. Students should consult the University of Oklahoma transfer catalog and work with an academic counselor at TCC or OU to carefully select courses that will meet the baccalaureate and associate degree programs. Students in this degree plan should plan to take the Oklahoma General Education Test during the last semester at TCC. Upon completion of the four-year curriculum at OU, students will be prepared to apply for an Oklahoma Teacher’s Certificate in Early Childhood. A grade of "C" or better is required in the coursework for this curriculum and students must maintain a 2.75 GPA to graduate from the University of Oklahoma.

Degree Awarded: Associate in Science
For More Information Contact:
Liberal Arts Division, Child Development Academic Program:

Recommended Electives Credit Hours: 0-6

Foreign Language 0-6 hours
Students must meet the university requirement of two college-level courses in a single foreign language or successful
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

completion of 2 years of foreign language in high school and pass a proficiency exam at OU, Norman.

Total Credit Hours: 66-67
*Course has prerequisite (See course description section of TCC catalog).
^Course must be completed with a “C” or better.
+CHLD 2513 and CHLD 2003 for OU EDEC 3413
+++CHLD 2233 for OU EDEC 2203
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

CHILD DEVELOPMENT
Center Director Option

Program Description:
This degree is for individuals who want to become a director of a child care center. It is also for those who are already employed as a director and who want to upgrade their knowledge and skills to perform their duties more effectively or to advance to a position of more responsibility. The course of study combines instruction in child development, business, management, and accounting to provide students the diverse training and preparation needed to be a center director. Students should check with the Oklahoma Department of Human Services Child Care Licensing Unit prior to enrollment in the program to see if they have the necessary work experience to qualify as a candidate for director of a small or large child care center.

NOTE: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for $15 fee and returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify that student that he/she may enroll in Child Development laboratory courses. NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 21

Biology 3 hours
BIOL 1383 Nutrition

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical Professional Writing

Physical Education 3 hours
PHED 1113 Personal, School, and Community Health

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 30

Accounting 3 hours
ACCT 1003 Introduction to Accounting
ACCT 2213 Financial Accounting

Child Development and Family Relations 21 hours
^CHLD 2003 Child Development in the Lifespan
^*CHLD 2103 Child Guidance
^CHLD 2113 Child Care Center Management I
^CHLD 2203 Child and Family in the Community
^*CHLD 2223 Early Childhood Foundations
^*CHLD 2253 Child Development Practicum
^*CHLD 2313 Child Care Center Management II

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications

Management 3 hours
MGMT 2363 Principles of Management

Controlled Electives Credit Hours: 9

CHLD Select Any Courses
CSCI Select Any Courses
SPAN Select Any Courses
BUSN 2313 Business Law I
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Services
HUMN 2113 Humanities I
HUMN 2223 Humanities II
INTD 1363 American Sign Language I
INTD 1413 Deaf Culture
MUSC 1002 Fundamentals of Music
MUSC 1113 Music Appreciation
PHED 2212 First Aid
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
*PSYC 2023 Developmental Psychology
*PSYC 2523 Child Psychology
SOCI 1113 Introduction to Sociology
*SOCI 2013 Marriage and Family
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
^Course must be completed with a “C” or better.
Students who have completed CHLD 1102, CHLD 1202, CHLD 1302, and CHLD 1402 with a grade of “C” or better may apply these credits toward any TCC Child Development Associate in Applied Science degree as controlled electives. Students who have earned a CDA credential may apply 9 hours controlled elective credit toward any TCC Child Development Associate in Applied Science degree. Students may contact the West Campus Registrar’s Office. Students wanting to transfer to a four-year college or university should contact a counselor in the West Campus Counseling Center.
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

CHILD DEVELOPMENT
Certificate of Mastery

Program Description:
This curriculum is designed to meet the requirements for the R.E.W.A.R.D. Oklahoma Supplement Scale. Courses address the CDA competencies and functional areas designed to prepare students for positions in either early childhood or infant-toddler or family child care programs. As part of this curriculum plan, students complete the application and assessment process for the Child Development Associate (CDA) National Credential administered by the Council for Early Childhood Professional Recognition. Students must have completed 480 hours of experience working with children within the past 5 years to apply for the CDA Credential. Students who achieve a grade of “C” or better in the CDA preparation courses may apply the credits toward any TCC Child Development Associate of Applied Science degree as controlled electives. Students take an additional Child Development course and Freshman Composition I in this plan. Students requesting advanced standing for a previously earned CDA credential should refer to page 20, Credit by Advanced Standing in this catalog.

NOTE: Persons convicted of a crime should check with the Oklahoma State Department of Human Services Child Care Licensing Unit prior to enrollment in this program.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Liberal Arts Division, Child Development Academic Program,
West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

Certificate Requirements Credit Hours: 18

Child Development (CDA Preparation Courses) 9 hours
CHLD 1102 CDA: Competencies 1 & 4
CHLD 1202 CDA: Competency 3
CHLD 1302 CDA: Competency 2
CHLD 1402 CDA: Competencies 5 & 6
CHLD 1501 CDA: Application and Assessment Preparation

English 3 hours
*ENGL 1113 Freshman Composition I

Child Development (select two courses) 6 hours
^CHLD 2003 Child Development in the Lifespan
^CHLD 2023 Child Development and Parenting
^CHLD 2103 Child Guidance
^CHLD 2113 Child Care Center Management I
^CHLD 2203 Child and Family in the Community
^CHLD 2213 Children with Special Needs
^CHLD 2313 Child Care Center Management II

Total Credit Hours: 18
*Course has prerequisite (See course description section of catalog).
^Course must be completed with a “C” or better.

CHILD DEVELOPMENT
Credential Preparation (CDA)

Program Description:
As part of this curriculum plan, students complete the application and assessment process for the Child Development Associate (CDA) National Credential administered by the Council for Early Childhood Professional Recognition. The program provides an introduction to the physical, social, emotional, and intellectual development of infants and young children. Courses address the CDA competencies and functional areas designed to prepare students for positions in either early childhood or infant-toddler or family child care programs. The Council has approved this CDA instructional program. Students must have completed 480 hours of experience working with children within the past 5 years to apply for the CDA Credential. Students who achieve a grade of “C” or better in these courses may apply the credits toward any TCC Child Development Associate of Applied Science degree as controlled electives. See the TCC Child Development Associate in Science degrees for credits that may be applied toward university transfer degrees.

NOTE: Persons convicted of a crime should check with the Oklahoma State Department of Human Services Child Care Licensing Unit prior to enrollment in this program.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Liberal Arts Division, Child Development Academic Program,
West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

Certificate Requirements Credit Hours: 9

Child Development 9 hours
CHLD 1102 CDA: Competencies 1 & 4
CHLD 1202 CDA: Competency 3
CHLD 1302 CDA: Competency 2
CHLD 1402 CDA: Competencies 5 & 6
CHLD 1501 CDA: Application and Assessment Preparation

Total Credit Hours: 9
*Course has prerequisite (See course description section of catalog).
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify that student that he/she may enroll in Child Development laboratory courses.

NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 21

Biology 3 hours
BIOL 1383 Nutrition

English 6 hours
*ENGL 1113 Freshman Composition I
select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Physical Education 3 hours
PHED 1113 Personal, School, and Community Health

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 30

Child Development 27 hours
^CHLD 2003 Child Development in the Lifespan
*CHLD 2103 Child Guidance
^CHLD 2203 Child and Family in the Community
^CHLD 2213 Children with Special Needs
*CHLD 2223 Early Childhood Foundations
*CHLD 2233 Physical Development and Creative Expression: Early Childhood
^CHLD 2243 Language and Cognitive Development: Early Childhood
^CHLD 2253 Child Development Practicum
*CHLD 2263 Social and Emotional Development: Early Childhood

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

Controlled Electives Credit Hours: 9
^CHLD Select Any Courses
CSCI Select Any Courses
SPAN Select Any Courses

ACCT 1003 Introduction to Accounting
*BUSN 2213 Small Business Management
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Services
HUMN 2113 Humanities I
HUMN 2223 Humanities II
INTD 1363 American Sign Language I
INTD 1413 Deaf Culture and History
MUSC 1002 Fundamentals of Music
MUSC 1113 Music Appreciation
PHED 2212 First Aid
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
*PSYC 2023 Developmental Psychology
*PSYC 2523 Child Psychology
SOCI 1113 Introduction to Sociology
*SOCI 2013 Marriage and Family
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
^Course must be completed with a “C” or better.

Students who have completed CHLD 1102, CHLD 1202, CHLD 1302, and CHLD 1402 with a grade of “C” or better may apply these credits toward any TCC Child Development Associate in Applied Science degree as controlled electives. Students who have earned a CDA credential may apply 9 hours controlled elective credit toward any TCC Child Development Associate in Applied Science degree. Students wanting to transfer to a four-year college or university should contact a counselor in the West Campus Counseling Center.

Program Description:
This certificate of achievement option is a competency based training program designed to build skills and knowledge needed to work with Head Start families. Course curriculum is based on the Head Start Program Performance Standards, Competency Goals and Indicators. A grade of “C” or better is required in each course and a student must successfully complete a portfolio assessment documenting skills and proveniences for each Competency Goal and Indicator to receive the Head Start Credential, Certificate of Achievement. Students who achieve a grade of “C” or better in these courses may apply the credits toward any TCC Child Development Associate in Applied Science degree as controlled electives. See the TCC Child Development Associate in Science degrees for credits that may be applied toward university transfer degrees.

NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

Certificate Requirements: Credit Hours 9
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

Child Development 9 hours
CHLD 1901 Head Start: Commitment and Professionalism
*CHLD 1912 Head Start: Building Relationships
*CHLD 1922 Head Start: Parent Involvement and Services
*CHLD 1932 Head Start: Resources and Assistance
*CHLD 1942 Head Start: Literacy, Culture, and Language

Total Credit Hours: 9
*Course has prerequisite (See course description section of catalog).

CHILD DEVELOPMENT
Infant/Toddler

Program Description:
This degree plan is designed to prepare students to work with infants and toddlers. Courses focus on the social, emotional, physical, intellectual, and language development of children birth to three years of age. Students learn developmentally appropriate program design and activities for infants and toddlers. Students gain practical knowledge and skills necessary for effective communication, nurturing, and facilitating optimal development for infants and toddlers.

Note: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for $15 fee and returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify that student that he/she may enroll in Child Development laboratory courses.

NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 21

Biology 3 hours
BIOL 1383 Nutrition

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Physical Education 3 hours
PHED 1113 Personal, School, and Community Health

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 30

Child Development 27 hours
^CHLD 2003 Child Development in the Lifespan
^*CHLD 2103 Child Guidance
^*CHLD 2203 Child in the Family and the Community
^CHLD 2213 Children with Special Needs
^*CHLD 2253 Child Development Practicum
^*CHLD 2263 Social and Emotional Development: Early Childhood
^*CHLD 2513 Programming for Infants and Toddlers
^*CHLD 2523 Physical Development in Infants and Toddlers
^*CHLD 2543 Cognitive and Language Development in Infants and Toddlers

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

Controlled Electives Credit Hours: 9
^CHLD Select Any Courses
CSCI Select Any Courses
SPAN Select Any Courses
ACCT 1003 Introduction to Accounting
*BUSN 2213 Small Business Management
HSVC 1113 Principles of Human Services
HSVC 1213Basic Counseling Services
HUMN 2113 Humanities I
HUMN 2223 Humanities II
INTD 1363 American Sign Language I
INTD 1413 Deaf Culture and History
MUSC 1002 Fundamentals of Music
MUSC 1113 Music Appreciation
PHED 2212 First Aid
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
*PSYC 2023 Developmental Psychology
*PSYC 2523 Child Psychology
SOCI 1113 Introduction to Sociology
*SOCI 2013 Marriage and Family
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Total Credit Hours: 60

*Course has prerequisite (See course description section of catalog).
^Course must be completed with a “C” or better.
Students who have completed CHLD 1102, CHLD 1202, CHLD 1302, and CHLD 1402 with a grade of “C” or better may apply these credits toward any TCC Child Development Associate in Applied Science degree as controlled electives.
Students who have earned a CDA credential may apply 9 hours controlled elective credit toward any TCC Child Development Associate in Applied Science degree.
Students wanting to transfer to a four-year college or university should contact a counselor in the West Campus Counseling Center.
CHILD DEVELOPMENT

Infant/Toddler Certification of Mastery

Program Description:
This curriculum is designed to meet the requirements for the R.E.W.A.R.D. Oklahoma Supplement Scale. Courses address infant - toddler development and care and are designed to prepare students for positions in child care programs serving infants and toddlers. Students who achieve a grade of “C” or better in the Infant - Toddler courses may apply the credits toward any TCC Child Development Associate of Applied Science degree as controlled electives. To complete the Certificate of Mastery students must also take Freshman Composition I.

NOTE: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for $15.00 fee and returning their criminal background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division Office at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division will notify that student he/she may enroll in Child Development Laboratory courses.

NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

Certificate Requirements: Credit Hours: 18

Child Development 15 hours
^CHLD 2513 Programming for Infants and Toddlers
^CHLD 2523 Physical Development in Infants and Toddlers
^CHLD 2543 Cognitive and Language Development in Infants and Toddlers
^CHLD 2263 Social and Emotional Development: Early Childhood
and select 3 credit hours from the following
^CHLD 2003 Child Development in the Lifespan
^CHLD 2023 Child Development and Parenting
^CHLD 2103 Child Guidance
^CHLD 2113 Child Care Center Management I
^CHLD 2203 Child and Family in the Community
^CHLD 2213 Children with Special Needs
^CHLD 2313 Child Care Center Management II

English 3 hours
*ENGL 1113 Freshman Composition I

Total Credit Hours: 18
*Course has prerequisite (See course description section of catalog)
^Course must be completed with a “C” or better.

CHILD DEVELOPMENT

Middle Childhood

Program Description:
This degree plan is designed to prepare students to work with children in middle childhood. The curriculum is designed to provide a framework for understanding the social, emotional, physical, and intellectual development of children five to twelve years of age. Students learn how to plan and implement developmentally appropriate programs and activities for children in before and after school programs, child care and classrooms. Students gain practical knowledge and skills necessary for effective communication, teaching, guidance, and motivation of school age children as well as interacting with parents.

NOTE: Students who intend to follow this degree plan must complete a one-page information sheet and obtain a Criminal Background Investigation packet from the Liberal Arts Division Office at West Campus. Students are responsible for $15 fee and returning their Criminal Background reports to the appropriate TCC office. Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has received criminal background and sex offender clearance, the Liberal Arts Division Office will notify that student that he/she may enroll in Child Development laboratory courses.

NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

General Education Requirements Credit Hours: 21

Biology 3 hours
BIOL 1383 Nutrition

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Physical Education 3 hours
PHED 1113 Personal, School, and Community Health

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 27

Child Development 24 hours
^CHLD 2003 Child Development in the Lifespan
^CHLD 2103 Child Guidance
^CHLD 2133 Middle Childhood Foundations
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

^CHLD 2203 Child and Family in the Community
^CHLD 2213 Children with Special Needs
^CHLD 2323 Physical and Creative Activities: Middle Childhood
^CHLD 2333 Science, Math, and Computer Activities: Middle Childhood
^CHLD 2253 Child Development Practicum

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

Controlled Electives Credit Hours: 12
^CHLD Select Any Courses
CSCI Select Any Courses
SPAN Select Any Courses
ACCT 1003 Introduction to Accounting
*BUSN 2213 Small Business Management
HSVC 1113 Principles of Human Services
^HSVC 1213 Basic Counseling Services
HUMAN 2113 Humanities I
HUMAN 2223 Humanities II
INTD 1363 American Sign Language I
INTD 1413 Deaf Culture and History
MUSIC 1002 Fundamentals of Music
MUSIC 1113 Music Appreciation
PHED 2212 First Aid
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
*PSYC 2023 Developmental Psychology
*PSYC 2523 Child Psychology
SOCIO 1113 Introduction to Sociology
*SOCI 2013 Marriage and Family
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Total Credit Hours: 60

^*Course has prerequisite (See course description section of catalog).  
^Course must be completed with a “C” or better.

Students who have completed CHLD 1802, CHLD 1812, CHLD 1822, and CHLD 1842, and CHLD 1852 with a grade of “C” or better may apply these credits toward the Middle Childhood Development Associate in Applied Science degree as controlled electives. Students who have earned a CDA credential may apply 9 hours controlled elective credit toward any TCC Child Development Associate in Applied Science degree. Students who want to transfer to a four-year college or university should contact a counselor in the West Campus Counseling Center. Upon approval from the Oklahoma State Department of Career Technology Education and the Oklahoma State Regents for Higher Education, students who earn their School-Age certificate from Tulsa Technology Center, with a grade of “C” or better in each course, may apply 12 hours controlled elective credit toward the Middle Childhood Associate of Applied Science Degree at Tulsa Community College.

CHILD DEVELOPMENT
Residential Child and Youth Professional

Program Description:
This certificate program is designed to prepare students to work in residential programs serving children and youth. Students will learn to provide care and service to children and youth living apart from their families whether in emergency shelter, group homes, juvenile detention, substance abuse centers, or psychiatric treatment facilities. The curriculum provides background and knowledge in the dynamics of child abuse and neglect as a basis for understanding children and youth in residential care.

NOTE: Students who intend to follow this degree plan must request and complete the appropriate Criminal Background Investigation paperwork from their home state. Students who have been residents of Oklahoma for more than one calendar year may obtain a packet from the Liberal Arts Division Office at West Campus prior to enrolling in CHLD 1762 and CHLD 1772. Out-of-State residents must secure a background check from the state of residence. Students are responsible for background check fee ($15 in Oklahoma, may be a higher fee in other states) and returning an original Criminal Background report to any TCC Enrollment Services office. (Copies and/or fax copies are not acceptable.) Once the TCC Administration notifies the Liberal Arts Division at West Campus that a student has turned in a cleared criminal background and sex offender report from the state of residence, the Liberal Arts Division Office will notify that student that he/she may enroll in CHLD 1762 and/or 1772.

NOTE: Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

Certificate Requirements Credit Hours: 13-14
Child Development 13 hours
CHLD 1722 Developing a Culture of Care
CHLD 1733 Understanding Child Development
CHLD 1742 Building Relationships
^CHLD 1752 Teaching Discipline
^CHLD 1762 Interviewing and Documentation Skills
^CHLD 1772 Residential Care Field Experience

Recommended Elective 0-1 hour
CHLD 1781 Youth Care Certification Preparation

Total Credit Hours: 13-14

^*Course has prerequisite (See course description section of catalog).  
^Course must be completed with a “C” or better.

Students who achieve a grade of “C” or better in the residential child and you care courses may apply the credits toward the TCC Certificate of Achievement Degree. Students completing this curriculum may also apply to complete certification as Residential Child and youth Care Professional Worker with the university of Oklahoma National Resource Center for Youth Services Residential Child and Youth Care Professional Worker certification at www.nrcysou.edu

CHILD DEVELOPMENT
Youth Development Certificate

Program Description:
This curriculum is for students who want to acquire knowledge and skills for employment in child and youth development programs such as before and after school services, youth groups, and summer programs. The curriculum provides a framework for understanding child and youth behavior and development and practical knowledge and skills for working
in and managing youth development programs. Students who achieve a grade of “C” or better in the youth development courses may apply the credits toward the TCC Child Development Associate Degree in Middle School or any other TCC associate in applied science degree.

**NOTE:** Employment in child care requires CPR Certification. Students may meet this requirement by taking PHED 2212 under controlled electives.

**Degree Awarded:** Certificate of Achievement

**For More Information Contact:**
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

**Certificate Requirements Credit Hours: 16**

**Child Development 16 hours**
CHLD 1802 Youth Development: Establishing the Environment
CHLD 1812 Youth Development: Mission and Procedures
CHLD 1822 Youth Development: Emotional Development and Guidance
CHLD 1833 Youth Development: Professional Management
CHLD 1841 Youth Development: Educational Support
CHLD 1842 Youth Development: Professional Development and Program Recognition
CHLD 1851 Youth Development: Developmenting Community
*CHLD 1863 Youth Development: Program Quality and Risk Management

**Total Credit Hours: 16**
*Course has prerequisite (See course description section of catalog).

**CHILD DEVELOPMENT**

**Teacher Assistant**

**Program Description:**
This plan of study is designed for students who are currently working or want to work in a public school assisting a certified teacher in the classroom. Students will acquire knowledge and develop skills needed to work directly with school age children as a teacher assistant in a public school setting. An emphasis on science, mathematics, and technology is presented in the course of study. Students in this curriculum plan will complete a practicum experience in a public school. Students planning to transfer to a teacher education bachelor's degree program at a university should consult with a TCC counselor and the transfer university when selecting courses for the degree. Students will be required to submit a Criminal History Report and tuberculin skin test for evaluation before enrollment in CHLD 2273 Teacher Assistant Practicum course.

**Degree Awarded:** Associate in Applied Science

**For More Information Contact:**
Liberal Arts Division, Child Development Academic Program, West Campus: (918) 595-8079
Counseling Center, West Campus: (918) 595-8176

**General Education Requirements Credit Hours: 35**

**English 6 hours**
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

**Humanities 6 hours**
select 6 hours from courses designated Humanities from the list of General Education courses.

**Mathematics 3 hours**
select 3 hours from courses designated Mathematics from the list of General Education courses.

**Science 8 hours**
BIOL 1114 General Biology for Non-Majors
PHSC 1114 General Physical Science
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

Social Studies 6 hours
POLS 113 American Federal Government
and select one 3 credit hour course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present
Speech 3 hours
SPCH 1113 Speech Communication I

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

Specialized Course Requirements Credit Hours: 21
Child Development
^CHLD 2003 Child Development in the Lifespan
^*CHLD 2103 Child Guidance
^*CHLD 2133 Middle Childhood Foundations
^CHLD 2213 Children with Special Needs
^*CHLD 2323 Physical and Creative Activities: Middle Childhood
^*CHLD 2333 Science, Math, and Computer Activities: Middle Childhood
^*CHLD 2273 Teacher Assistant Practicum

Recommended Electives Credit Hours: 4
Students planning to transfer to a teacher education bachelor’s degree program at a university should consult with a TCC counselor and the transfer university when selecting courses for this degree.

Total Credit Hours: 60
*Course has prerequisites
^Course must be completed with a “C” or better.

EDUCATION PROGRAMS
NOTE: All Teacher Education majors are required to take the OGET (Oklahoma General Education Test) prior to admission to professional education programs at the university. Please visit the Counseling Center at any campus for information about the OGET. National Council for Accreditation of Teacher Education (NCATE) is the national accrediting program for teacher education. The council requires that students in teacher education programs at 4-year colleges complete a portfolio. Students in Child Development or Education degree programs at Tulsa Community College should save all assignments from those courses for possible inclusion in the portfolio. Contact the college where you plan to transfer for specific portfolio requirements.

NOTE: Prior to graduation from a 4-year college or university, students majoring in Early Childhood, Elementary, or Special Education must complete with a “C” or better a minimum of:
12 hours of Communication Arts
12 hours of Social Science
12 hours of Math
12 hours of Science
Demonstrate Proficiency in a language other than English.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

EDUCATION
Elementary Education
Secondary Education

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Education may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Arts

For More Information Contact:
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651, West: (918) 595-8176

General Education Requirements Credit Hours: 35

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See the General Education Requirements page for complete list

Mathematics 3 hours
See the General Education Requirements to select 3 hours of Mathematics.

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Science 8 hours
*PHSC 1114 General Physical Science
BIOL 1114 General Biology for Non-Majors
(Courses in Physics, Chemistry, Zoology may be substituted. One of the courses must have a lab.)

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Two (2) credit hours of General Education Requirements are satisfied in recommended electives section below.

Recommended Electives Credit Hours: 25
Students should very carefully select courses which will conform to requirements at the institution to which they will transfer.

Elementary Education 25 hours
BIOL 1383 Nutrition
BIOL 2123 Human Ecology
CHLD 2031 Early Field Experience
CSCI 1203 Computer Concepts and Applications
COMMUNITY SERVICE: CHILD DEVELOPMENT & EARLY CHILDHOOD EDUCATION

ENGL 2373 Teach-A-Reader
*ENGL 2413 Introduction to Literature
*ENGL 2683 Survey of World Literature from 1700
GEOG 1023 World Geography (Economic)
GEOG 1043 Introduction to Cultural Geography
GEOG 2033 World Regional Geography
GEOG 2153 Human Ecology
HIST 1033 History of Oklahoma
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
HUMN 2113 Humanities I
HUMN 2223 Humanities II
*MATH 2193 Elementary Statistics
MATH 2423 Mathematics Concepts for Educators
*MATH 2553 Geometry and Measurement
MUSC 1612 Class Piano I
*MUSC 1622 Class Piano II
PHED 1113 Personal, School and Community Health
PHED 2212 First Aid
PHIL 1113 Introduction to Philosophy
PSYC 1023 Psychology of Personal Adjustment
*PSYC 2023 Developmental Psychology
*PSYC 2523 Child Psychology
RELG 1113 Introduction to Religious Studies
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America
SPCH 1013 Fundamentals of Listening
SPCH 2103 Interpersonal Communication
**Select from one Foreign Language.
Note: Foreign Language is necessary and the number of hours will vary depending on the transfer university requirements.

Secondary Education 25 hours
13 hours: From classes listed under Elementary Education above
and
12 hours: Choose classes that follow the suggested program in the anticipated academic teaching area.

Total Credit Hours: 60

*Course has prerequisite (See course description section of catalog).
**Check catalog for advanced standing credit. Language proficiency at the novice high level required. Call (918) 595-7851 for proficiency certification.
^Course must be completed with a “C” or better.
To receive an A.A. or A.S. Degree, students must maintain a 2.5 GPA to graduate from Langston University.

Oklahoma General Education Test during the last semester at TCC.
Upon completion of the four-year curriculum at Langston, a student will be prepared to apply for an Oklahoma Teacher Certificate in Elementary Education or Special Education. A grade of “C” or better is required in the coursework for this curriculum and students must maintain a 2.5 GPA to graduate from Langston University.

Degree Awarded: Associate in Arts

General Education Requirements Credit Hours: 38

English 9 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II
*ENGL 2383 Advanced Composition

Humanities 6 hours
See the General Education Requirements page for complete list

Mathematics 3 hours
See the General Education Requirements page for complete list

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Science 8 hours
*PHSC 1114 General Physical Science
BIOL 1114 General Biology for Non-Majors
(Courses in Physics, Chemistry, Zoology may be substituted. One of the courses must have a lab.)

Social Science 6 hours
POLS 1113 American Federal Government
and select one of the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Recommended Electives Credit Hours: 12
CSCI 1203 Computer Concepts and Applications
ENGL 1003 Strategies for Academic Success
GEOG 1043 Introduction to Cultural Geography
MATH 2423 Mathematics Concepts for Educators
*MATH 2553 Geometry and Measurement
SPCH 2103 Interpersonal Communication

Foreign Language 0-6 hours
Students must meet the university requirement of two college-level courses in a single foreign language or successful completion of 2 years of foreign language in high school and pass a proficiency exam.

Total Credit Hours: 60

*Course has prerequisite (See course description section of catalog).
^Course must be completed with a “C” or better.
To receive an A.A. or A.S. Degree, students must maintain a 2.5 GPA to graduate from Langston University.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
HEALTH and HUMAN PERFORMANCE

Program Description:
The Health and Human Performance program prepares students for careers in a variety of settings including corporate, hospital-based, community, government and private enterprises. This degree track prepares a student for the American Council on Exercise Certification Exam. This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the transfer university catalog and carefully select courses that will meet the requirements for both baccalaureate and associate degree programs.

Degree Awarded: Associate in Science Degree

For More Information Contact:
Science, Mathematics and Engineering:
Northeast: (918) 595-7542
Counseling Centers: Metro: (918) 595-7151,
Northeast: (918) 595-7527, Southeast: (918) 595-7651,
West: (918) 595-8176

General Education Requirements Credit Hours: 40

English 6 Hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 Hours
See the General Education Requirements page for complete list

Mathematics 3 Hours
*MATH 1513 College Algebra

Social Science 6 Hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Science 8 Hours
BIOL 1224 Introduction to Biology for Majors
*BIOL 2154 Human Physiology

Required Electives 11 Hours

Mathematics 3 Hours
*MATH 2193 Elementary Statistics

Science 5 Hours
*CHEM 1315 General Chemistry I

Speech 3 Hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 20

Behavioral Science 6 Hours
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Exercise Science Core 14 Hours
BIOL 1383 Nutrition
**PHED 2212 First Aid
PHED 2263 Principles in Health Education and Human Promotion

Total Credit Hours: 60

*Course has prerequisite (see course description section of catalog).
**Advanced Credit may be awarded for current certification.
+Requirements for PHED 1113 or 2603 vary by institution. Visit with transfer institution for program requirements.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

HEALTH and HUMAN PERFORMANCE

OSU Transfer Option

Program Description:
The Health and Human Performance program prepares students for careers in a variety of settings including corporate, hospital-based, community, government and private enterprises. This degree track prepares a student for the American Council on Exercise Certification Exam. This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum designed to transfer to Oklahoma State University’s Bachelor of Science Degree in Health Promotion.

Degree Awarded: Associate in Science Degree

For More Information Contact:
Science, Mathematics and Engineering:
Northeast: (918) 595-7542
Counseling Centers: Metro: (918) 595-7151,
Northeast: (918) 595-7527, Southeast: (918) 595-7651,
West: (918) 595-8176

General Education Requirements Credit Hours: 40

English 6 Hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 Hours
See the General Education Requirements page for complete list

Mathematics 3 Hours
*MATH 1513 College Algebra

Social Science 6 Hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Science 8 Hours
BIOL 1224 Introduction to Biology for Majors
*+BIOL 2154 Human Physiology

Required Elective 8 Hours

Mathematics 3 Hours
*MATH 1513 College Algebra

Social Science 6 Hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Science 8 Hours
BIOL 1224 Introduction to Biology for Majors
*+BIOL 2154 Human Physiology

Speech 3 Hours
SPCH 1113 Speech Communication I

Required Elective 8 Hours

Mathematics 3 Hours
*MATH 2193 Elementary Statistics
**INTERPRETER EDUCATION**  

**University of Arkansas at Little Rock Transfer Option**

**Program Description:**  
This program is designed to prepare students for a career as a sign language interpreter for persons who are deaf or hard of hearing. This program emphasizes the acquisition of American Sign Language, the appreciation of Deaf Culture and the process of interpreting and transliterating.

**Degree Awarded:** Associate in Arts

**For More Information Contact:**  
Liberal Arts Division: Northeast (918) 595-7494  
Counseling Center: Northeast: (918) 595-7527

**General Education Requirements Credit Hours: 37**

**English 6 hours**
- *ENGL 1113 Freshman Composition I*
- *ENGL 1213 Freshman Composition II*

**Humanities 6 hours**
- HUMN 2113 Humanities I
- HUMN 2223 Humanities II

**Mathematics 3 hours**
- *MATH 1513 College Algebra*

**Science 7 hours**
- See General Education Requirements. One course must be a lab science.

**Social Science 6 hours**
- POLS 1113 American Federal Government
- and select one course from the following:
  - HIST 1483 U.S. History 1492 to Civil War Era
  - HIST 1493 U.S. History Civil War Era to Present

**Required Electives 9 hours**
- *INTD 1373 American Sign Language II*
- INTD 1413 Deaf Culture and History
- INTD 1423 Introduction to Interpreting

**Specialized Course Requirements Credit Hours: 29**
- *INTD 2213 ASL to English Interpreting I*
- *INTD 2233 ASL to English Interpreting II*
- *INTD 2393 Interpreting I*
- *INTD 2403 Interpreting II*
- *INTD 2414 American Sign Language III*
- *INTD 2443 Interpreting in Specialized Settings*
- *INTD 2524 American Sign Language IV*
- *INTD 2613 Interpreting III*
- *INTD 2643 Interpreting Internship*

**Total Credit Hours: 66**
- *Course has prerequisite (see course description section of catalog).*
- **Advanced Credit may be awarded for current certification.**
- *OSU requires a grade of C or higher in these courses.*

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. 

**INTERPRETER EDUCATION**

**Program Description:**  
This program is designed to prepare students for a career as a sign language interpreter for persons who are deaf or hard of hearing. This program emphasizes the acquisition of American Sign Language, the appreciation of Deaf Culture and the process of interpreting and transliterating.

**Degree Awarded:** Associate in Applied Science

**For More Information Contact:**  
Liberal Arts Division: Northeast (918) 595-7494  
Counseling Center: Northeast: (918) 595-7527

**General Education Requirements Credit Hours: 15**

**English 6 hours**
- *ENGL 1113 Freshman Composition I*
- *ENGL 1213 Freshman Composition II*

**and select 3 credit hours from the following:**
- *ENGL 1213 Freshman Composition II*
- *ENGL 2333 Technical/Professional Writing*

**Social Science 6 hours**
- POLS 1113 American Federal Government
- and select one course from the following:
  - HIST 1483 U.S. History 1492 to Civil War Era
  - HIST 1493 U.S. History Civil War Era to Present

**Speech 3 hours**
- SPCH 1013 Fundamentals of Listening
- SPCH 1113 Speech Communication I
- SPCH 2103 Interpersonal Communication

The remaining General Education Requirements may be satisfied in Specialized Course Requirements or Controlled Electives.

**Specialized Course Requirements Credit Hours: 41**

**Interpreter Education 41 hours**
- INTD 1363 American Sign Language I
COMMUNITY SERVICE: EDUCATION

*INTD 1373 American Sign Language II
INTD 1413 Deaf Culture and History
*INTD 1423 Introduction to Interpreting
*INTD 2213 ASL to English Interpreting I
*INTD 2233 ASL to English Interpreting II
*INTD 2393 Interpreting I
*INTD 2403 Interpreting II
*INTD 2414 American Sign Language III
*INTD 2443 Interpreting in Specialized Settings
*INTD 2524 American Sign Language IV
*INTD 2613 Interpreting III
*INTD 2643 Interpreting Internship

Controlled Electives Credit Hours: 3
ENGL 1083 Grammar and Mechanics of Writing
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations
SOCI 2113 Social Problems in America

Recommended Electives Credit Hours: 1
Select one credit hour from any discipline

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog)

INTERPRETER EDUCATION

Certificate

Program Description:
This program is designed to prepare students who have already obtained an associate or bachelor's degree in another field for a career in interpreting for persons who are deaf or hard of hearing. The program emphasizes the acquisition of American Sign Language, the appreciation of Deaf Culture and the process of interpreting and transliterating. The courses are designed to prepare the student to take the interpreter certification tests and to work in entry-level positions as an interpreter in the public schools, colleges and universities, social service agencies and/or private practice.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Liberal Arts/Community Services Division: Northeast: (918) 595-7494
Counseling Center: Northeast: (918) 595-7527

Certificate Requirements Credit Hours: 41

Interpreter Education 41 hours
INTD 1363 American Sign Language I
*INTD 1373 American Sign Language II
INTD 1413 Deaf Culture and History
*INTD 1423 Introduction to Interpreting
*INTD 2213 ASL to English Interpreting I
*INTD 2233 ASL to English Interpreting II
*INTD 2393 Interpreting I
*INTD 2403 Interpreting II
*INTD 2414 American Sign Language III
*INTD 2443 Interpreting in Specialized Settings
*INTD 2524 American Sign Language IV
*INTD 2613 Interpreting III
*INTD 2643 Interpreting Internship

Total Credit Hours: 41
*Course has prerequisite (See course description section of catalog).

PHYSICAL EDUCATION

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. This degree is for the student who has interests in sports and fitness, exercise physiology, health and wellness, and the leisure services. Teaching is only one facet of this major. The choices are as broad as coaching to directing outdoor sports activities, trainer, or sports director in professional athletics. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Divisions: Metro: (918) 595-7334,
Northeast: (918) 595-7542, Southeast: (918) 595-7742, West: (918) 595-8193

General Education Requirements Credit Hours: 18
See the General Education Requirements for the complete list. Science, math and elective requirements satisfied in Specialized Course Requirements and Recommended Electives.

Specialized Course Requirements Credit Hours: 28-29

Behavioral Sciences 6 hours
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Mathematics 3 hours
*MATH 1513 College Algebra

Physical Education 11 hours
BIOL 1383 Nutrition
PHED 1113 Personal, School and Community Health
PHED 1143 Foundations of Physical Education
PHED 2212 First Aid

Science 8-9 hours
BIOL 1114 General Biology for Non-Majors
and select one course from the following:
GEOG 1014 Geography (Physical)
*MATH 1315 General Chemistry I

Recommended Electives Credit Hours: 14
*MATH 1415 General Chemistry II
CSCI 1203 Computer Concepts and Applications
GEOG 1043 Introduction to Cultural Geography
*MATH 1613 Plane Trigonometry
*PHYS 1114 General Physics I
*PHYS 1214 General Physics II
SPCH 1113 Speech Communication I

Total Credit Hours: 60-61
*Course has prerequisite (See course description section of catalog). Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
HUMAN SERVICES

Program Description:
Human service workers and assistants provide direct and indirect client services and serve to improve and enhance the lives of others in a variety of roles within social and human service delivery settings. Job titles vary: case management aide, social work assistant, alcohol or drug abuse counselor, mental health aide, community outreach worker, life skill counselor, crisis intervention counselor, intake worker, gerontology aide, family support worker, habilitation aide, residential counselor, and juvenile specialist. The U.S. Department of Labor states, “Human services worker and assistant occupations are projected to be among the fastest growing. Job opportunities should be excellent [for qualified applicants]”... The Human Services program at Tulsa Community College is designed to provide education and training for individuals seeking careers in a wide range of helping profession settings. Students gain basic knowledge, skills, and values necessary to communicate and interact with persons experiencing personal and social problems in order to assess needs and provide appropriate intervention. Students have many opportunities to gain hands-on experience with community agencies and populations. In addition to general education requirements, all Human Service students complete core coursework in:

- Principles of Human Services
- Basic Counseling Skills
- Lifespan Development
- Human Services Applications/Case Management
- Internship

University Transfer (2 + 2) Options
Degree options are available to provide seamless transfer to four-year degrees in Child and Family Services (Oklahoma State University), Therapeutic Recreation (Oklahoma State University), Pre-Social Work (Northeastern State University, Oral Roberts University, and University of Oklahoma), Human Development (St. Gregory’s University), Family Studies (Southern Nazarene University) and Human Relations (University of Oklahoma). Articulation agreements between Tulsa Community College and the designated universities provide for a seamless transition toward a baccalaureate or advanced degree in a human services-related field. Students complete general education requirements for the bachelors degree and also complete core courses within the Human Services program, which complement upper division coursework within the major field at the four-year university.

General Information
The Human Services coursework is available in a variety of schedule alternatives, including traditional 16-week classes day and evening. Courses are also aligned with the FAST-TRACK program to allow degree completion to students desiring an accelerated schedule. The Human Services Institute offers special focus courses providing in-depth information on current issues in the human services field for students and community professionals in short-course formats. Students are strongly encouraged to enroll in core courses within the Human Services program early in their academic career along with general education requirements. Faculty advisement is available in this program. For more career and occupational information in the human services field, visit the following Web sites:


Human Services University Transfer Options Degrees Awarded: Associate in Science

HUMAN SERVICES Child and Family Services - OSU Transfer Option 091 D

Program Description:
This option is designed for individuals seeking careers in the helping professions providing services to children, youth, elderly, and families in a variety of community based settings. Students gain 24 credit hours of specialization in Human Services while earning the associate degree.

Degree Awarded: Associate in Science
Semester plan available through faculty advisement.

General Education Requirements Credit Hours: 37

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Geography 3 hours
GEOG 1043 Introduction to Cultural Geography

Humanities 3 hours
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Science 7 hours
BIOL 1114 General Biology for Non-Majors
BIOL 1383 Nutrition

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Credit Hours: 23-24 Hours
^Human Services 18 hours
HSCC 1113 Principles of Human Services
HSCC 1213 Basic Counseling Skills
HSCC 2023 Lifespan Development
*HSCC 2053 Human Services Applications/Case Management
*HSCC 2113 Internship
*HSCC 2203 Parent-Child Relations

Controlled Electives Credit Hours: 5-6
^HSCC 1313 Chemical Dependency and Treatment
^HSCC 2003 Dynamics of Family Relationship
^HSCC 2073 Issues in Human Services
or
^HSCC 2173 Service Learning in Human Services

PHED 2212 First Aid
PHED 2533 Introduction to Therapeutic Recreation
PSYC 2133 / SOCI 1133 Crisis Intervention and Experience
PSYC 2053 Social Psychology

Total Credit Hours: 60-61
*Course has prerequisite (See course description section of catalog).
To receive an A.A.or A.S. Degree, students must demonstrate computer proficiency.
^Students must earn a "C" or better in HSCC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

EDUCATION: Interpreter Education 159
HUMAN SERVICES
Human Development, St. Gregory’s University Transfer Option

Program Description:
This option is designed for individuals seeking a career in the helping professions with an emphasis on applying the principles and philosophy of human services to each area of human growth and development in a variety of human service delivery settings. This curriculum includes TCC requirements and courses generally completed in the first two years of a four-year curriculum while providing 27 hours of specialized coursework relevant to the field of study. Completion of this Associate Degree affords the student the opportunity to transfer to St. Gregory’s University Human Development degree with articulated courses already completed within that program. Up to 76 credit hours may be transferred from Tulsa Community College towards the St. Gregory’s University degree.

Degree Awarded: Associate in Science
Semester plan available through faculty advisement.

General Education Requirements Credit Hours 37

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 9 hours
See the General Education Requirements page for complete list

Mathematics 3 hours
Select one course from the following:
*MATH 1473 Mathematics for Critical Thinking
*MATH 1513 College Algebra

Science 7 hours
BIOL 1114 General Biology for Non-Majors
BIOL 1383 Nutrition

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Psychology/Sociology 3 hours
Select one from the following:
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Speech 3 hours
Select one from the following:
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 27

^Human Services 18 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 2023 Lifespan Development
*HSVC 2053 Human Service Applications/Case Management
*HSVC 2113 Internship
and select one of the following:
*HSVC 2203 Parent-Child Relations
HSVC 2003 Dynamics of Family Relations

Recommended Electives 9 hours
^HSVC 1313 Chemical Dependency and Treatment
^HSVC 2073 Issues in Human Services
^HSVC 2613 Gerontology in Human Services
^HSVC Any Human Services Course
*PSYC 2133/SOCI 1133 Crisis Intervention and Experience
*SOCI 2013 Marriage and Family
*SOCI 2113 Social Problems in America
*SOCI 2143 Minorities in America

Total Credit Hours: 64
*Course has prerequisite (See course description section of catalog).
^Students must earn a “C” or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

HUMAN SERVICES
Pre-Social Work - NSU or ORU (B.S.W.); OU (M.S.W.) Transfer Option

Program Description:
This option is designed for individuals seeking careers in helping professions providing services to children, youth, elderly, and families in a variety of community-based settings with an academic goal of earning a bachelors or masters degree in generalist social work practice. Articulation agreements between universities provide a seamless transition toward a baccalaureate degree (NSU or ORU) and a master’s degree (OU), which can be earned in five years in the greater Tulsa area. Students gain 21 credit hours of specialization in Human Services while earning the associate degree.

Degree Awarded: Associate in Science
General Education Requirements Credit Hours 37

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
GEOG 1043 Introduction to Cultural Geography
and select one from the following:
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Mathematics 3 hours
select one from the following
*MATH 1513 College Algebra
*MATH 1473 Mathematics for Critical Thinking

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Science 7 hours
BIOL 1114 General Biology for Non-Majors
BIOL 1383 Nutrition

Social Science 6 hours
POLS 1113 American Federal Government
and select one from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 3 hours
SOCI 1113 Introduction to Sociology

Recommended Electives 9 hours
^HSVC 1313 Chemical Dependency and Treatment
^HSVC 2073 Issues in Human Services
^HSVC 2613 Gerontology in Human Services
^HSVC Any Human Services Course
*PSYC 2133/SOCI 1133 Crisis Intervention and Experience
*SOCI 2013 Marriage and Family
*SOCI 2113 Social Problems in America
*SOCI 2143 Minorities in America

Total Credit Hours: 64
*Course has prerequisite (See course description section of catalog).
^Students must earn a “C” or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
COMMUNITY SERVICE: HUMAN SERVICES

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 27

Economics 3 hours
ECON 2013 Principles of Macroeconomics

^Human Services 15 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 2023 Lifespan Development

*HSVC 2053 Human Services Applications/Case Management
*HSVC 2113 Internship

Controlled Electives Credit Hours: 9
Select 2 of the following Courses:

^HSVC 1313 Chemical Dependency and Treatment
^HSVC 2073 Issues in Human Services
*PSYC 2133/SOCI 1133 Crisis Intervention and Experience

and select one from the following:

*MATH 2193 Elementary Statistics
*PSYC 2223/SOCI 2223 Behavioral Statistics

Other HSVC electives may be allowed. See HSVC faculty advisors.

Total Credit Hours: 64

*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

^Students must earn a "C" or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.

HUMAN SERVICES
Therapeutic Recreation, OSU Transfer Option

Program Description:
This program is designed for individuals who want a professional career providing Therapeutic Recreation services within hospitals, rehabilitation centers, long-term care facilities and the community. This curriculum includes TCC requirements and courses generally completed in the first two years of a four-year curriculum in Therapeutic Recreation at Oklahoma State University. Students must complete the Associate Degree in order to transfer to Oklahoma State University under this agreement.

Degree Awarded: Associate in Science
Semester plan available through faculty advisement.

General Education Requirements Credit hours: 34

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 3 hours
HUMN 2113 Humanities I
HUMN 2223 Humanities II

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Philosophy 3 hours
PHIL 2153 Medical Ethics

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Science 7 hours
Biol 1114 General Biology
Biol 1383 Nutrition

Social Science 6 hours
POLS 1113 American Federal Government

and select one from the following:

HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 24

^Human Services 12 hours
HSVC 1213 Basic Counseling Skills

*HSVC 2023 Lifespan Development
*HSVC 2053 Human Services Applications/Case Management
** *HSVC 2113 Internship

Physical Education 8 hours
PHED 2212 First Aid
PHED 2513/HSVC 2413 Introduction to Leisure Studies

PHED 2533/HSVC 2433 Introduction to Therapeutic Recreation

Biology 4 hours
Biol 1314 Human Anatomy and Physiology

Controlled Electives Credit Hours: 3

SOCI 2143 Minorities in America

*HSVC 2073 Issues in Human Services

Recommended Electives Credit Hours 0-3

^HSVC 1113 Principles of Human Services

^HSVC 1313 Chemical Dependency and Treatment

^HSVC 1413 Introduction to Developmental Disabilities

^HSVC 1423 Models for Supporting Persons with Developmental Disabilities

^HSVC 2203 Parent-Child Relations

^HSVC 2073 Issues in Human Services

^HSVC 2613 Gerontology in Human Services

PHED/HSVC 2342 Recreation Therapy/ Rope Course Training

PHED/HSVC 2363 Recreation Therapy/ Outdoor Adventure

ALDH 1323 Medical Terminology

Total Credit Hours: 61-64

*Course has prerequisite (See course description section of catalog).
** The internship should be completed in a hospital setting under the supervision of a CTRS. Hours completed as part of your TCC internship will go toward documentation of 500 hours of paid or volunteer experience within the recreation field required prior to enrolling in your senior internship experience (12 credits) at Oklahoma State University.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
COMMUNITY SERVICE: HUMAN SERVICES

HUMAN SERVICES

Workforce Development Program options

Degrees awarded: Associate in Applied Science or Certificate of Achievement

Human Services workers and assistants provide direct and indirect client services and serve to improve and enhance the lives of others in a variety of roles within social and human service delivery settings. Job titles vary: case management aide, social work assistant, alcohol or drug abuse counselor, mental health aide, community outreach worker, life skill counselor, crisis intervention counselor, intake worker, gerontology aide, family support worker, habilitation aide, residential counselor, and juvenile specialist. The U.S. Department of Labor states: Human services worker and assistant occupations are projected to be among the fastest growing. Job opportunities should be excellent [for qualified applicants]... The Human Services program at Tulsa Community College is designed to provide education and training for individuals seeking careers in a wide range of helping profession settings. Students gain basic knowledge, skills, and values necessary to communicate and interact with persons experiencing personal and social problems in order to assess needs and provide appropriate intervention. Students have many opportunities to gain hands-on experience with community agencies and populations. In addition to general education requirements, all Human Service students complete core coursework in:

- Principles of Human Services
- Basic Counseling Skills
- Chemical Dependency and Treatment
- Lifespan Development
- Human Services Applications/Case Management
- Issues in Human Services
- Crisis Intervention
- Internship

Additional career and occupational information in the human services field can be found at:

HUMAN SERVICES

Certificate Option

Program Description:
The certificate option involves the student strictly in courses specific to the human services field, providing students with technical skills necessary for employment prior to obtaining general education requirements for an academic degree or may provide the core courses needed to individuals with academic degrees in unrelated fields desiring to change careers.

Degree Awarded: Certificate of Achievement

Semester plan available through faculty advisement

Certificate Requirements Credit Hours: 30

^Human Services 27 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 1313 Chemical Dependency and Treatment
HSVC 2023 Lifespan Development
*HSVC 2053 Human Services Applications/Case Management
*HSVC 2073 Issues in Human Services
*HSVC 2113 Internship
*HSVC 2613 Gerontology in Human Services

and select 3 credit hours from the following:

- HSVC 1413 Introduction to Developmental Disabilities
- HSVC 1423 Models for Supporting Persons with Developmental Disabilities

and select 3 credit hours from the following:

- HSVC 2003 Dynamics of Family Relationships
*HSVC 2203 Parent-Child Relations

and select 3 credit hours from the following:

- HSVC 2513 Management of Community Programs
*HSVC 1523 Volunteer Management in Human Services

Computer Information Systems 3 hours
Select three credit hours from any of the Computer Information Systems courses.

Total Credit Hours: 60
^Students must earn a grade of “C” or better is HSVC courses in order to progress to advanced courses in the program, or gain permission of instruction or associate dean.
and select one course from the following:
HSVC 1413 Introduction to Developmental Disabilities
*HSVC 2073 Issues in Human Services
*HSVC 2203 Parent-Child Relations
HSVC 2433 Introduction to Therapeutic Recreation

and select one course from the following:
HSVC 1423 Models for Supporting Persons with Developmental Disabilities
*HSVC 2213 Introduction to Group Dynamics
HSVC 2413 Introduction to Leisure Services
*HSVC 2613 Gerontology in Human Services

Psychology/Sociology 3 hours
Select one course from the following:
*PSYC 2133 Crisis Intervention and Experience
*SOCI 1133 Crisis Intervention and Experience

Total Credit Hours: 30
*Course has prerequisite (See course description section of catalog).
^ Students must earn a grade of “C” or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.

HUMAN SERVICES
Chemical & Alcohol Dependency Counseling Option

Program Description:
Graduates from this program should meet the qualifications in preparation for certification for an Alcohol/Drug Counselor in Training with the Oklahoma Drug and Alcohol Professional Counselor Certification Board. Specialized course requirements (12 credit hours) include:
• Dynamics of Family Relationships
• Introduction to Group Dynamics
• CADC Practicum

Degree Awarded: Associate in Applied Science
Semester plan available through faculty advisement

General Education Requirements Credit Hours: 24

English 6 hours
*ENGL 1113 Freshman Composition I

and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
*SOCI 1133 Crisis Intervention and Experience
and select 3 credit hours from the following:
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America

Speech 3 hours
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I

SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 33
^Human Services 30 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 1313 Chemical Dependency and Treatment
HSVC 2003 Dynamics of Family Relationships
HSVC 2023 Lifespan Development
*HSVC 2213 Introduction to Group Dynamics
*HSVC 2053 Human Services Applications/Case Management
*HSVC 2073 Issues in Human Services
*HSVC 2103 Practicum I
*HSVC 2113 Internship

Computer Information Systems 3 hours
Select three credit hours from any of the Computer Information Systems (CSYS/CSCI) courses.

Controlled Electives Credit Hours: 3
Foreign Languages – Any Course
^Human Services – Any Courses
INTD 1363 American Sign Language I
CRIM 2103 Criminal Evidence
CRIM 2123 Criminal Law I
*PSYC 2053 Social Psychology
*PSYC 2423 Introduction to Abnormal Psychology
*SOCI 2053 Social Psychology
*SOCI 2133 Introduction to Deviant Behavior
*SOCI 2143 Minorities in America
*SOCI 2243 Introduction to Social Work

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
^ Students must earn a grade of “C” or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.

HUMAN SERVICES
Family Studies

Program Description:
This option provides graduates with additional knowledge and skills to serve at-risk families and children in settings addressing prevention and intervention in child abuse, domestic violence, welfare assistance, youth supervision, adoption services, special needs and disabilities, child advocacy, shelters, and foster care. This option also meets requirements for transfer to Family Studies & Gerontology at Southern Nazarene University-Tulsa.

Degree Awarded: Associate in Applied Science
Semester plan available through faculty advisement.

General Education Requirements Credit Hours: 30-31

Communications 9 hours
*ENGL 1113 Freshman Composition I

and select 6 credit hours from the following:
each course must be from a different discipline
Literature (ENGL)
*ENGL 2413 or other ENGL literature course
Speech (SPCH)
Foreign Language
COMMUNITY SERVICE: HUMAN SERVICES

Humanities 9 hours
Select 9 credit hours from 3 different disciplines designated as humanities on the general education page

Science/Math 6-7 hours
Select one course from 2 of the following disciplines
MATH
PHYS or PHSC
BIOL
GEOL or GEOG

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 33
^Human Services 24 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 2003 Dynamics of Family Relationships
HSVC 2023 Lifespan Development
^HSVC 2053 Human Services Applications/Case Management
^HSVC 2113 Internship
^HSVC 2203 Parent-Child Relations
^HSVC 2613 Gerontology in Human Services

Psychology/Sociology 3 hours
Select one course from the following:
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Computer Information Systems 3 hours
Select 3 credit hours from any of the Computer Information Systems (CSYS/CSCI) courses.

Controlled Electives Credit Hours: 3
Foreign Languages – Any Courses
^Human Services – Any Courses
PHED 1113 Personal, School, and Community Health
PHED 2212 First Aid
PSYC any courses
PSYC 2133/SOCI 1133 Crisis Intervention and Experience
SOCI any courses
^SOCI 2013 Marriage and Family

Total Credit Hours: 63-64**
^Course has prerequisite (See course description section of catalog).
^Students must earn a grade of "C" or better is HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.
^Up to 88 credit hours may be transferred from TCC towards the SNHU Family Studies and Gerontology baccalaureate degree- 62 hours transfer at initial transcript evaluation. TCC earned hours over 62 may be petitioned for potential elective credit after successful admission to SNHU and after academic advising. Students will need to have a total of 124 credit hours to obtain a Bachelor of Science in Family Studies and Gerontology; a total of 36 hours will be earned in SNHU major consisting of 14 modules/courses.

HUMAN SERVICES
Community Services Management

Program Description:
Students in this option gain learning experiences that focus on the knowledge and skills necessary to manage, operate, and deliver services in community-based agencies. Graduates will be prepared for entry-level management positions in non-profit and other human service agencies as volunteer coordinator, program coordinator, site coordinator, residential manager, advocacy or social policy liaison, or board member, as well as gaining insights to enhance performance in any position within an agency. Specialized course requirements (12-15 credit hours) include:
• Management of Community Programs
• Volunteer Management in Human Services
• Supervisory Management or Management Essentials

Degree Awarded: Associate in Applied Science
Semester plan available through faculty advisement

General Education Requirements Credit Hours: 27

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
^SOCI 1133 Crisis Intervention and Experience
and select 3 credit hours from the following:
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America

Speech 3 hours
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Computer Information Systems 3 hours
Select 3 credit hours from any of the Computer Information Systems (CSYS/CSCI) courses.

Specialized Course Requirements Credit Hours: 33

Business/Management 3 hours
select one course from the following:
BUSN 2363 Supervisory Management
MGMT 1353 Management Essentials

^Human Services 27 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 1313 Chemical Dependency and Treatment
HSVC 2003 Dynamics of Family Relationships
HSVC 2023 Lifespan Development

COMMUNITY SERVICE: HUMAN SERVICES
HUMAN SERVICES

Program Description:
Students gain a diversity of skills necessary for job functions related to juvenile and adult corrections, including positions in parole, halfway houses, and residential settings for youth, correctional facilities, and community centers. Specialized coursework (12-15 credit hours) includes:
- Social Psychology
- Juvenile Delinquency or Adolescent or Adult Psychology
- Criminal Justice or relevant courses

Degree Awarded: Associate in Applied Science
Semester plan available through faculty advisement

General Education Requirements Credit Hours: 27

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Psychology 6 hours
PSYC 1113 Introduction to Psychology
*PSYC/SOCI 2053 Social Psychology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
*SOCI 1133 Crisis Intervention and Experience
and select one course from the following:
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America

Speech 3 hours
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Controlled Electives Credit Hours: 3
^Human Services – Any Courses
INTD 1413 Deaf Culture and History
*MGMT 1373 Human Resources Management
MGMT 1233 Health Care Management
PHED 1113 Personal, School, and Community Health
*POLS 2103 Introduction to State and Local Government
*POLS 2133 Introduction to Public Administration
*PSYC/SOCI 2053 Social Psychology
*PSYC/SOCI 2813 Human Sexuality
*SOCI 2043 Juvenile Delinquency
*SOCI 2133 Introduction to Deviant Behavior
*SOCI 2143 Minorities in America

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
^Students must earn a grade of "C" or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of the instructor or associate dean.

COMMUNITY SERVICE: HUMAN SERVICES

*HSVC 2053 Human Services Applications/Case Management
*HSVC 2073 Issues in Human Services
*HSVC 2113 Internship
*HSVC 2513 Management of Community Programs

Controlled Electives Credit Hours: 3
^Human Services – Any Courses
INTD 1413 Deaf Culture and History
*MGMT 1373 Human Resources Management
MGMT 1233 Health Care Management
PHED 1113 Personal, School, and Community Health
*POLS 2103 Introduction to State and Local Government
*POLS 2133 Introduction to Public Administration
*PSYC/SOCI 2053 Social Psychology
*PSYC/SOCI 2813 Human Sexuality
*SOCI 2043 Juvenile Delinquency
*SOCI 2133 Introduction to Deviant Behavior
*SOCI 2143 Minorities in America

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
^Students must earn a grade of "C" or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of the instructor or associate dean.
HUMAN SERVICES

Direct Support Professional I Certificate

Program Description:
The DSP Certificate involves the student strictly in courses specific to the Direct Support Professional, building upon required training in the State of Oklahoma. DSPs support people with developmental disabilities, physical disabilities, and other related conditions in residential, vocational, educational, recreation, health, and other community settings.

Degree Awarded: Certificate of Achievement
Semester plan available through faculty advisement.

Certificate Requirements Credit Hours: 15

^Human Services 15 hours
*HSVC 1403 Direct Support Professional Foundations
HSVC 1413 Introduction to Developmental Disabilities
HSVC 1423 Models for Supporting Persons with Developmental Disabilities
*HSVC 1443 Direct Support Professional I
*HSVC 1453 Direct Support Professional Practicum

Total Credit Hours: 15

*Course has prerequisite (See course description section of catalog).
^Students must earn a grade of "C" or better in HSVC courses in order to progress to advanced course in the program, or gain permission of the instructor.

Degree Awarded: Associate in Applied Science
Semester plan available through faculty advisement

General Education Requirements Credit Hours: 24

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
*SOCI 1133 Crisis Intervention and Experience
and select 3 credit hours from the following:
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America

Speech 3 hours
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 30

^Human Services 30 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 1313 Chemical Dependency and Treatment
HSVC 1413 Introduction to Developmental Disabilities
HSVC 1423 Models for Supporting Persons with Developmental Disabilities
HSVC 2023 Lifespan Development
*HSVC 2053 Human Services Applications/Case Management
*HSVC 2073 Issues in Human Services
*HSVC 2113 Internship
*HSVC 2513 Management of Community Programs

Controlled Electives Credit Hours: 6
CHLD 2213 Children with Special Needs
^*HSV C 1433 Leisure, Recreation, Visual, and Performing Arts in Disabilities
^*HSVC 1523 Volunteer Management in Human Services
^*HSVC 2003 Dynamics of Family Relationships
^*HSVC 2203 Parent-Child Relations
INTD 1363 American Sign Language I
OCTA 1313 Introduction to Occupational Therapy
PHED 1113 Personal, School, and Community Health
PHIL 2153 Medical Ethics
*POLS 2133 Introduction to Public Administration
*PSYC / SOCI 2053 Social Psychology
*PSYC 2213 Brain and Behavior
*PSYC / SOCI 2813 Human Sexuality
*SOCI 2133 Introduction to Deviant Behavior
*SOCI 2243 Introduction to Social Work

Total Credit Hours: 60

*Course has prerequisite (See course description section of catalog).
^Students must earn a grade of "C" or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.
HUMAN SERVICES
Gerontology

Human Services - Specialized Options
Students in the Gerontology Option obtain skills and knowledge that will provide flexibility to work in a number of settings relating to the aging population. Careers serving the elderly can be found in senior centers, adult day care, nursing homes and other residential settings for the elderly, home companion/home health care, hospice, and family support. Specialized coursework (15 - 16 credit ours) includes:
• Gerontology in Human Services
• Aging and Behavior
• Management of Community Programs

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 27

English 6 hours
*ENGL 1113 Freshman Composition I
and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Psychology 6 hours
PSYC 1113 Introduction to Psychology
PSYC/SOCI 2713 Aging and Behavior

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
*SOCI 1133 Crisis Intervention and Experience
and select one course from the following:
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America

Speech 3 hours
SPCH 1013 Fundamentals of Listening
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 33

Computer Information Systems 3 hours
Select 3 credit hours from any of the Computer Information Systems (CSYS/CSCI) courses.

^Human Services 27 hours
HSVC 1113 Principles of Human Services
HSVC 1213 Basic Counseling Skills
HSVC 1313 Chemical Dependency and Treatment
HSVC 2023 Lifespan Development
*HSVC 2053 Human Services Applications/Case Management
*HSVC 2073 Issues in Human Services
*HSVC 2113 Internship
*HSVC 2513 Management of Community Programs
*HSVC 2613 Gerontology in Human Services

Philosophy 3 hours
PHIL 2153 Medical Ethics

Controlled Electives Credit Hours: 3-4
^Human Services - Any Courses
ALDH 1323 Medical Terminology
BIOL 1383 Nutrition
HORT 1031 Therapeutic Horticulture
MGMT 1233 Health Care Management
PHED 1113 Personal, School, and Community Health
PHED 2212 First Aid
*POLS 2133 Introduction to Public Administration
*PSYC / SOCI 2053 Social Psychology
*PSYC 2213 Brain and Behavior
*PSYC 2613 Adult Psychology
*SOCI 2243 Introduction to Social Work

Total Credit Hours: 63-64
^Course has prerequisite (See course description section of catalog).
^ Students must earn a grade of “C” or better in HSVC courses in order to progress to advanced courses in the program, or gain permission of instructor or associate dean.
CRIMINAL JUSTICE

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Criminal Justice may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice. Criminal justice agencies have various strenuous entrance, background and physical requirements. This program will assist in preparing students for employment in criminal justice if other criteria established by employer/agency are met.

Degree Awarded: Associate in Arts

For More Information Contact:
Liberal Arts and Community Services Division: Northeast: (918) 595-7494
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 37
See the General Education Requirements page for the complete list.

Specialized Course Requirements Credit Hours: 15
Criminal Justice 15 hours
CRIM 1013 Introduction to Criminal Justice
CRIM 2103 Criminal Evidence
CRIM 2123 Criminal Law I
*CRIM 2143 Criminal Law II
CRIM 2223 Criminal Procedures I

Recommended Electives Credit Hours: 9
*CSYS 2563 Enterprise Security
*CRIM 2113 Criminalistics
*CRIM 2333 Criminal Procedures II
CSCI 1203 Computer Concepts and Applications
GEOG 1023 World Geography (Economic)
GEOG 1043 Introduction to Cultural Geography
HIST 1033 History of Oklahoma
HIST 1053 Ancient and Medieval Western Civilization
HIST 1063 Modern Western Civilization
PHIL 1113 Introduction to Philosophy
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology
SOCI 2113 Social Problems in America
*SOCS 2223 Behavioral Statistics

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
Proficiency in a foreign language is recommended.

EMERGENCY MEDICAL TECHNOLOGY

Program Description:
This program is developed jointly by Tulsa Community College and Tulsa Technology Center. Basic: This option provides an opportunity for individuals to develop skills to function as an entry-level Emergency Medical Technician in a pre hospital setting. Course of study includes introductory anatomy and physiology, patient assessment, automatic operations. Paramedic: The paramedic phase of the program emphasizes the care of more extended and in-depth study of theories and clinical experiences. Basic Trauma Life Support, Advanced Cardiac Life Support and Pediatric Advanced Life Support units are taught. This phase also contains leadership instruction appropriate to prepare the student to function in the role of the Paramedic and as a member of the health care team. Successful completion of the National Registry of Emergency Medical Technicians examination at the Basic and Paramedic levels qualifies graduates for licenser by the Oklahoma State Department of Health.

Degree Awarded: Associate of Applied Science

Procedures for Application:
1. Obtain an admission packet from Tulsa Technology Center. Packets are located at all Tulsa Technology Center campuses in the Adult Education office.
2. An admission test is required for full-time programs at Tulsa Technology Center (see admission packet for details).
3. Submit completed program application form and required documents to the Career Services Center at (918) 828-2024 for application deadlines.
4. Contact the Associate Dean, Liberal Arts and Community Service Programs (918) 595-7494, for program application form and any specific information.
5. All prospective EMDT program students must complete an application for enrollment to the College and submit their high school transcripts, GED scores, ACT/SAT scores, college transcripts and any previous training and/or education to the Northeast Campus Registrar at 3727 East Apache, Tulsa, OK 74115. Incomplete submissions will not be considered for Science Degree program.
6. Acceptance to Tulsa Community College does not guarantee admission to the Emergency Medical Technology Associate of Applied Science Degree program.

For More Information Contact:
Tulsa Technology Center - Admissions and Enrollment Office. Students should consult with Tulsa Tech Admissions and Enrollment Staff in the Career Services Center at (918) 828-5200 before enrolling in this option.
Liberal Arts and Community Services Division: Northeast Campus (918) 595-7494

General Education Requirements Credit Hours: 19
Biology 4 hours
*BIOL 1314 Human Anatomy and Physiology

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2343 Business Communications

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Human Services 3 hours
COMMUNITY SERVICE: HUMAN SERVICES
Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 35
EMDT Basic 8 hours
**EMDT 1013 EMDT Basic Introduction
**EMDT 1024 EMDT Basic Practicum
**EMDT 1041 EMDT Basic Clinical
EMDT Paramedic 24 hours
EMDT 1213 Introduction to Paramedicine
EMDT 1231 Paramedicine Clinical Introduction
EMDT 1342 Paramedic Patient Assessment
EMDT 1351 Patient Assessment Clinical
EMDT 2003 Paramedic Trauma and Trauma Clinical
EMDT 2014 Paramedic Medical
EMDT 2031 Paramedic Medical Clinical
EMDT 2061 PreHospital Trauma Life Support
EMDT 2111 EMS Clinical
*EMDT 2131 Paramedic Special Considerations and Assessment Based Mgmt.
EMDT 2151 Special Considerations Clinical
EMDT 2212 Physician Internship
EMDT 2231 Paramedic Operations
EMDT 2252 EMS Internship

Fire and Emergency Services 3 hours
FESR 1313 Fundamentals of Fire Protection
Recommended Electives Credit hours 6
ALDH 1323 Medical Terminology
BUSN 2363 Supervisory Management
CSCI 1203 Computer Concepts and Applications
HCAD 1103 Legal Practices in Health Care
HCAD 1113 Risk Management in Health Care
HSVC 1313 Chemical Dependency and Treatment
HSVC 2003 Dynamics of Family Relationships
INTD 1363 American Sign language I
MGMT 2123 Leadership Development
*MATH 1513 College Algebra
NURS 2403 Dosage Calculations for Nurses
PHIL 2153 Medical Ethics
*PSYC 2023 Developmental Psychology
*PSYC 2053 Social Psychology
*SOCI 2713 Aging and Behavior
SPAN 1103 Spanish I
SPCH 1113 Speech Communication I

Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog).
**Course must be completed with a "B" grade or above.
NOTE: Students who have passed the State of Oklahoma and National Registry examinations at either the Basic EMDT or Paramedic level may apply for advanced standing credit in these courses. Application must be made in the Counseling and Testing Center at the Northeast Campus. Specialized Course Requirements should be taken at Tulsa Technology Center, Peoria Campus, or any other educational institution that offers approved programs.
Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 30

Fire and Emergency Services 30 hours
FESR 1313 Fundamentals of Fire Protection
*FESR 1333 Fire Protection Hydraulics and Water Supply
FESR 1343 Fundamental of Fire Prevention
FESR 1353 Introduction to Incident Management
FESR 2213 Introduction to Homeland Defense
FESR 2313 Building Construction for Fire Protection
FESR 2323 Fire and Emergency Services Administration
FESR 2343 Fire Behavior and Combustion
FESR 2403 Fire Protection Systems
FESR 2463 Emergency Services Internship

Recommended Elective Credit Hours: 0-8
FESR 2108 Basic Emergency Medical Technician Certification

Total Credit Hours: 68-76

*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
COMMUNITY SERVICE: LAW, PUBLIC ADMINISTRATION & SAFETY AND CORRECTIONS

FIRE AND EMERGENCY SERVICES

Program Description:
This certificate program is designed for both students who are preparing themselves for a career in the fire service and those who are currently employed as Firefighters. The curriculum is designed to provide education in the development of fire protection in the U.S., hydraulics and water supply, fire prevention, incident management, fire investigation, building construction, fire and emergency services administration, fire behavior, fire protection systems, and emergency medical services response. This curriculum provides students with the technical knowledge necessary to maximize effectiveness in the position of Firefighters.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Fire and Emergency Services Program: (918) 595-7443
Liberal Arts and Community Services Division: Northeast: (918) 595-7494
Counseling Center: Northeast: (918) 595-7527

Certificate Requirements Credit Hours: 41
FESR 1313 Fundamentals of Fire Protection
*FESR 1333 Fire Protection Hydraulics and Water Supply
FESR 1343 Fundamentals of Fire Prevention
FESR 1353 Introduction to Incident Management
FESR 1363 Fire Investigation and Arson
FESR 2108 Basic Emergency Medical Technician Certification.
FESR 2213 Introduction to Homeland Defense
FESR 2313 Building Construction for Fire Protection
FESR 2323 Fire and Emergency Services Administration
FESR 2343 Fire Behavior and Combustion
FESR 2403 Fire Protection Systems
FESR 2463 Emergency Services Internship

Total Credit Hours: 41
*Course has prerequisite (See course description section of the catalog).

FIRE AND EMERGENCY SERVICES
Emergency and Community Preparedness Option

Program Description:
This certificate program is designed for individuals who want to increase their knowledge of homeland security issues and solutions. It is recommended for individuals who either are employed as or are seeking employment as Firefighters, Police Officers, emergency management officials, and in business and industry. The curriculum is designed to provide education in the development of emergency services in the U.S., emergency incident management, homeland defense, and cyber security. This curriculum provides students with the basic knowledge necessary to provide effectiveness in positions requiring knowledge of homeland security issues.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Fire and Emergency Services Program: (918) 595-7443
Liberal Arts and Community Services Division: Northeast (918) 595-7494
Counseling Center: Northeast (918) 595-7527

Certificate Requirements Credit Hours: 24
*CSYS 2563 Enterprise Security
FESR 1313 Fundamentals of Fire Protection
FESR 1353 Introduction to Incident Management
FESR 2213 Introduction to Homeland Defense

Total Credit Hours: 24
*Course has prerequisite (see course description section of the catalog).

LAW ENFORCEMENT

Program Description:
This program is designed principally for persons interested in a career as a peace officer and as a program for current peace officers to improve their knowledge and skills in specialized fields. Law enforcement agencies have various strenuous entrance, background, and physical requirements. Students should not assume this program will lead to employment in law enforcement.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Liberal Arts/Community Services Division: Northeast: (918) 595-7494
Counseling Center: Northeast: (918) 595-7527

General Education Requirements 24 hours
English 6 hours
*ENGL 1113 Freshman Composition I
and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Psychology 3 hours
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
SOCI 1113 Introduction to Sociology
*SOCI 2043 Juvenile Delinquency

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 24
Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications

Criminal Justice 21 hours
CRIM 1013 Introduction to Criminal Justice
CRIM 2103 Criminal Evidence
*CRIM 2113 Criminalistics
CRIM 2123 Criminal Law I
*CRIM 2143 Criminal Law II
CRIM 2223 Criminal Procedures I
*CRIM 2333 Criminal Procedures II
COMMUNITY SERVICE: LAW, PUBLIC ADMINISTRATION & SAFETY AND CORRECTIONS

Recommended Electives Credit Hours: 12
*CRIM 1213 Police Fundamentals
*CRIM 1253 Police Methods and Equipment
*CRIM 2023 Traffic Investigation
CRIM 2063 Law Enforcement Supervision
CRIM 2183 Police Equipment and Weapons
CRIM 2213 Interrogation Techniques
FESR 1363 Fire Investigation and Arson
MGMT 2363 Principles of Management
POLS 2103 Introduction to State and Local Government

Total Credit Hours: 60
*Course has prerequisite (See course description section of the catalog).

LAW ENFORCEMENT
Collegiate Officer Option

Program Description:
This program is designed principally for persons interested in obtaining state certification as a peace officer and as a program for current peace officers to improve their knowledge and skills in specialized fields.

Law enforcement agencies have various strenuous entrance, background, and physical requirements. Students should not assume this program will lead to employment in law enforcement.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Liberal Arts/Community Services Division:
Northeast: (918) 595-7494
Counseling Center: Northeast: (918) 595-7527
Certificate Requirements Credit Hours: 25

General Education Requirements 24 hours

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Psychology 3 hours
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Sociology 6 hours
SOCI 1113 Introduction to Sociology
SOCI 2043 Juvenile Delinquency

Speech 3 hours
SPCH 1113 Speech Communication I
SPCH 2103 Interpersonal Communication

Specialized Course Requirements Credit Hours: 26

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications

Criminal Justice 6 hours
*CRIM 2023 Traffic Investigation
*CRIM 2113 Criminalistics

Law Enforcement 17 hours
*LENF 1013 Introduction to Law Enforcement
LENF 1023 Law and Law Enforcement
*LENF 1033 Patrol Function
+*LENF 2013 Police and Community Relations
+*LENF 2021 Custody and Control
+*LENF 2033 Law Enforcement Drivers Training
+*LENF 2041 Police Basic Firearms

Recommended Electives Credit Hours: 12
*CRIM 1213 Police Fundamentals
*CRIM 1253 Police Methods and Equipment
*CRIM 2023 Traffic Investigation
CRIM 2063 Law Enforcement Supervision
CRIM 2183 Police Equipment and Weapons
CRIM 2213 Interrogation Techniques
FESR 1363 Fire Investigation and Arson
MGMT 2363 Principles of Management
POLS 2103 Introduction to State and Local Government

Total Credit Hours: 62
*Course has prerequisite (See course description section of the catalog).
+ These courses require compliance with Oklahoma Statutes and qualifications for certification as a peace officer. Students desiring to enter this program should consult counseling for specific program requirements. Some courses may require medical waivers and/or insurance against personal injury. Successful completion of the Associate in Applied Science – Law Enforcement Degree or the Certificate of Achievement in Law Enforcement may qualify the graduate to test for basic peace officer certification under the rules of the Council On Law Enforcement Education and Training. Students desiring to enter the Collegiate Officers Program must declare their intent in advance of commencing class and should consult advisement before enrolling in any LENF course. Credits applying to the Collegiate Officer Program cannot be obtained from testing or advanced standing.

For more information contact Director of TCC/COP at (918) 595-7463, or the Liberal Arts/Community Services Division at Northeast Campus at (918) 595-7494.

PARALEGAL

Program Description:
Graduates may continue their education and training at a four-year university. Students should consult the catalog of the university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Upon satisfactory completion of the course requirements, including a grade of “C” or better in all Paralegal courses, graduates are eligible to apply for the examination given by the National Association of Legal Assistants, Inc. to become Certified Legal Assistants (CLA). Tulsa Community College is a member of the American Association for Paralegal Education.

Degree Awarded: Associate in Arts

For More Information Contact:
Business and Information Technology Division:
Metro Campus: (918) 595-7439
Counseling Center: Metro Campus (918) 595-7151
Legal Assistant Program Coordinator: (918) 595-7317

ADMISSION TO THE PROGRAM
1. Complete all admission requirements to Tulsa Community College.

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## Community Service: Law, Public Administration & Safety and Corrections

2. Complete all admission requirements to the Paralegal Program.
   a. Complete Paralegal Application. (Available in the Business and Technology Division Office, Metro Campus, MC 416)
   b. Furnish copies of all transcripts to the program director with application.

Tulsa Community College will refuse program completion credit for legal specialty courses taken more than six years prior to completion of the program, unless the student's proficiency in the area can be demonstrated.

### General Education Requirements Credit Hours: 34

#### English 6 hours
- *ENGL 1113 Freshman Composition I
- *ENGL 1213 Freshman Composition II

#### Humanities 6 hours
See the General Education Requirements page for complete list (no performance classes).

#### Mathematics 3 hours
MATH 1513 College Algebra or higher level MATH course

#### Science 7 hours
See the General Education Requirements page for complete list (one course must be laboratory).

#### Social Science 6 hours
POLS 1113 American Federal Government and select one of the following:
- HIST 1483 U.S. History 1492 to Civil War Era
- HIST 1493 U.S. History Civil War Era to Present

#### Required Electives 6 hours
Select at least one 3-hour course from the general education list in Foreign Language, Psychology, or Social Science and select 3 credit hours from Humanities, Fine Arts (Art, Music, Theatre – but not performance classes), Foreign Language, Social Science, Economics, Geography, Health Education, Nutrition, Business Law, Math, or English. 2343 is recommended for students with no office experience.

### Specialized Course Requirements Credit Hours: 27

#### Accounting 3 hours
ACCT 2213 Financial Accounting

#### Paralegal 21 hours
Students are required to earn a “C” or better in all Paralegal Courses
- *PLGL 1213 Introduction to the Legal System
- *PLGL 1313 Civil Procedure I
- *PLGL 2303 Civil Procedure II
- *PLGL 2333 Introduction to Legal Research and Writing
- *PLGL 2343 Advanced Legal Research and Writing
- *PLGL 2353 Contracts
- *PLGL 2363 Real Property Law

#### Speech 3 hours
SPCH 1113 Speech Communication I

### Total Credit Hours: 61
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

### Paralegal

#### Program Description:
This program is designed to prepare graduates to work as professional assistants under the supervision of attorneys, with training in civil procedure, legal research and writing, drafting of documents, interviewing techniques, litigation support, computer use in the law, and law office systems management. Students acquire additional knowledge of various substantive and procedural areas of law including, among others, contract law, real property transactions, business organizations, family law, bankruptcy or probate practice. Upon satisfactory completion of the course requirements, including a grade of “C” or better in all Paralegal courses, graduates are eligible to apply for the examination given by the National Association of Legal Assistants, Inc. to be Certified Legal Assistants (CLA). Tulsa Community College is a member of the American Association for Paralegal Education.

#### Degree Awarded: Associate in Applied Science

#### For More Information Contact:
Paralegal Program Coordinator: (918) 595-7317
Business and Information Technology Division: Metro Campus (918) 595-7039
Counseling Center: Metro Campus (918) 595-7151

### Admission to the Program
1. Complete all admission requirements to Tulsa Community College.
2. Complete all admission requirements to the Paralegal Program.
   a. Complete Paralegal Application. (Available in the Business and Information Technology Division Office, Metro Campus, MC 416)
   b. Furnish copies of all transcripts to the program director with application.

Tulsa Community College will refuse program completion credit for legal specialty courses taken more than six years prior to completion of the program, unless student's proficiency in the area can be demonstrated.

### General Education Requirements Credit Hours: 18

#### English 6 hours
- *ENGL 1113 Freshman Composition I
- *ENGL 1213 Freshman Composition II

#### Social Science 6 hours
POLS 1113 American Federal Government and select one course from the following:
- HIST 1483 U.S. History 1492 to Civil War Era
- HIST 1493 U.S. History Civil War Era to Present

### Additional General Education 6 hours
Within the requirement for 18 semester hours or the equivalent of General Education coursework, students must take courses in at least three different disciplines such as social sciences, natural sciences, mathematics, humanities, foreign language and English. Acceptable courses include survey and theory courses, but exclude performance, activity, and special topics 2991-2996 courses. See the Paralegal Program Coordinator for questions about specific course acceptability.

#### Specialized Course Requirements Credit Hours: 27-30

#### Accounting 3 hours
ACCT 2213 Financial Accounting
COMPUTER INFORMATION SYSTEMS 0-3 hours
CSCI 1203 Computer Concepts and Applications

PARALEGAL 21 hours
Students are required to earn a “C” or better in all Paralegal Courses.
*PLGL 1213 Introduction to the Legal System
*PLGL 1313 Civil Procedure I
*PLGL 2303 Civil Procedure II
*PLGL 2333 Introduction to Legal Research and Writing
*PLGL 2343 Advanced Legal Research and Writing
*PLGL 2353 Contracts
*PLGL 2363 Real Property Law

SPEECH 3 hours
SPCH 1113 Speech Communication I

CONTROLLED ELECTIVES Credit Hours: 15
**Paralegal 9 hours
*PLGL 2373 Computers in the Law
*PLGL 2403 Principles of Family Law
*PLGL 2413 Law Office Systems and Procedures
*PLGL 2423 Corporations, Partnerships and LLC’s
*PLGL 2433 Bankruptcy
*PLGL 2443 Probate, Administration of Estates and Trusts
*PLGL 2453 Administrative Law
*PLGL 2463 Labor and Employment
*PLGL 2473 Torts and Insurance
*PLGL 2483 Native American Law
*PLGL 2493 Criminal Law for Paralegals
*PLGL 2502 Medical Record Analysis for Paralegals
*PLGL 2601 Worker’s Compensation for Paralegals
*PLGL 2613 Social Security Administration
*PLGL 2621 Elder Law
*PLGL 2802 Internship
*PLGL 2813 Internship

Select an additional 6 hours from other computer, accounting, business, management, administrative careers, or paralegal courses. Examples are:
MGMT 2363 Principles of Management
***ENGL 2343 Business Communications
*PLGL 2802 Internship
*PLGL 2813 Internship

Total Credit Hours: 60-63
*Course has prerequisite (See course description section of catalog).
**Graduation credit for 1 and 2 credit hour courses in this series is limited to a maximum of 3 credit hours.
***ENGL 2343 is recommended for students with no law office experience.
*PLGL 2802 or *PLGL 2813 is recommended for students with no law office experience or no experience as paralegals.

POLITICAL SCIENCE, A.A.
Associate in Arts (transfer degree).
See: Arts & Communications area of study: Liberal Arts & Social Sciences
Health Science Area of Study

AA: Associate in Arts, university transfer degree • AS: Associate in Science, university transfer degree
AAS: Associate in Applied Science, workforce degree • CER: Certificate of Achievement

University transfer degree programs include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Workforce development degree and certificate programs are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Allied Health

Dental Assisting, AAS Cooperative agreement TTC
Dental Hygiene, AAS
(Emergency Medical Technology AAS see: Community Services area of study: Law, Public Administration, Safety & Corrections)
Medical Laboratory Technician, AAS/CER
Medical Laboratory Technician- Phlebotomy, CER
Occupational Therapy Assistant, AAS
Pharmacy Technology, CER
Physical Therapist Assistant, AAS
Radiography, AAS
Respiratory Care, AAS

MEDICAL OFFICE SUPPORT
(Business, Healthcare Business Operations options, AAS/CER see Business)
Health Information Technology:
  Medical Records, AAS
  Coding & Reimbursement Specialist, CER
Medical Assistant:
  Clinical Administrative, CER
  Transcription, CER

NURSING

Geriatric Technician, CER
Health Sciences, Pre-Nursing, AS
Nursing, AAS
Patient Care Technician, CER
Surgical Technology, AAS

Pre-Professional
Pre-Pharmacy OU option
Pre-Professional Science Related Fields of Concentration:
  Dentistry, AS
  Medicine, AS
  Optometry, AS
Pre-Veterinary Science OSU option, AS

Other Health Sciences
Veterinary Technology, AAS
(Biotechnology, AS/AAS/CER see Science, Technology, Engineering & Mathematics area of study: Science)
HEALTH SCIENCE

CARDIOVASCULAR TECHNOLOGY

Program Description:
The Tulsa Community College (TCC) two-year Associate in Applied Science Cardiovascular Technology Program is designed to prepare individuals with the knowledge, skills and behaviors that are required for the performance of a successful cardiovascular technologist. The profession of cardiovascular technology includes three areas of diagnostic evaluation: 1) non-invasive cardiovascular technology, 2) invasive cardiovascular technology, 3) non-invasive peripheral vascular technology (diagnosis of blood vessel disease using ultrasound testing). The TCC Cardiovascular Technology Program incorporates both the non-invasive and invasive aspects of the profession into the AAS degree.

Cardiovascular technologists are health care professionals, under the direction of a qualified physician, who are concerned with the diagnosis and treatment of patients with congenital and acquired heart and blood vessel disease. The non-invasive cardiovascular technologist performs cardiac ultrasound, exercise testing and electrocardiographic (ECG) testing. The invasive cardiovascular technologist is a member of the cardiac catheterization team and assists with coronary and cardiac angiography, percutaneous coronary intervention, right heart catheterization, electrophysiology and pacemaker implantations.

Program Information:
The Cardiovascular Technology Program at Tulsa Community College selects up to 10 new students during the spring semester to begin in the fall semester (August) of each year. Once admitted to the program the student must follow the remainder of the prescribed curriculum. The specialized courses are not offered out of sequence. They are offered in the day time only, on a full-time basis and will take a total of five (5) semesters and 73 credit hours to complete. All of the general education courses may be taken prior to being accepted into the program to lighten the semester course load but BIO 1314 – Human Anatomy and Physiology, ALDH 1323 – Medical Terminology, MATH 1473 – Math for Critical Thinking, CHEM 1114 – Principles of Chemistry and certification in the **American Heart Association Basic Cardiac Life Support (BCLS) must be completed as prerequisites prior to acceptance into the Cardiovascular Technology Program. After successful completion of all academic and clinical requirements, the graduate of the TCC Cardiovascular Technology Program will be eligible to take the Registry Exams for the RCS and RCIS credentials offered through Cardiovascular Credentialing International (CCI), CCI, 1500 Sunday Drive, Suite 102, Raleigh, NC 27607, (919) 861-4539.

**Can be obtained through TCC Continuing Education

Accreditation:
The Cardiovascular Technology Program at Tulsa Community College is seeking accreditation by the Commission on Accreditation of Allied Health Programs (CAAHEP) 1361 Park Street, Clearwater, FL 33756, (727) 210-2350 through the Joint Review Committee on Education Programs in Cardiovascular Technology (JRC-CVT), 1248 Harwood Drive, Bedford, TX 76021, (817) 283-2835.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division at Metro Campus: (918) 595-7002

Application Instructions:
The following application process and all appropriate information must be completed by June 1:

1. Complete the Tulsa Community College application for admission and submit to the Metro Campus Enrollment Services office.

2. Acceptance to Tulsa Community College does not guarantee admission to the Cardiovascular Technology Program.

3. Send official high school transcript or GED scores to the Metro Campus Enrollment Services Office. High school seniors should send a (7th) semester transcript. Upon completion of high school, another official transcript must be sent with final grades and graduation date.

4. Send official college transcript(s) to Metro Campus Enrollment Services office from each college(s) attended.

5. Send official ACT/SAT scores to the Metro Campus Enrollment Services office. (Each candidate must have either an ACT or SAT score to be considered for the program, regardless of age or educational background).

6. First time college students must meet with a counselor in the Counseling and Testing Center regarding student orientation, CPT, (College Placement Test) and possible high school curricular deficiencies. Each applicant must show proficiency in English, Reading and Science.

7. Send completed application and all required documentation for the Cardiovascular Technology Program to the Allied Health Division office by June 1st. The Cardiovascular Technology Program has a limited enrollment and students are encouraged to apply as soon as possible. Applications received after the deadline will be considered only if the class has not been filled. Once an application is received, you will be notified by mail regarding your status in the selection process.

8. In order to enroll in the courses that include a clinical component and are part of the program degree plan, students must submit a completed immunization form and receive clearance on a criminal background check, including a sex offender registry or provide documentation of a security clearance from another state or country (international students).

Selection Criteria
A selection committee reviews all applications. Qualified applicants will be granted an interview with the Cardiovascular Technology faculty. Qualified applicants are then ranked from the highest to the lowest score according to an established point system. The Cardiovascular Technology Program top applicants are notified of their selection by the middle of July. The selection criteria are based upon the following:

1. College Cumulative GPA of 2.5.
2. ACT composite score of 19 or higher or CPT of 80 or higher in English, Reading, Math and Science.
HEALTH SCIENCE

3. Math and/or Science GPA
4. Math and Science ACT/SAT Score
5. Interview

Prerequisite Courses:
You must be enrolled in the LAST of the following prerequisites in the spring semester to be considered for selection. All prerequisites must be completed with a grade of ‘C’ or higher.

- BIOL 1314 Human Anatomy and Physiology
- MATH 1473 Math for Critical Thinking
- AH 1323 Medical Terminology
- CHEM 1114 Principles of Chemistry

General Education Requirements Credit Hours: 29

- Biology 4 hours
  + BIOL 1314 Human Anatomy and Physiology

- Chemistry 4 hours
  + CHEM 1114 Principles of Chemistry

Computer Information Systems 3 hours
  + CSCI 1203 Computer Concepts and Applications

English 6 hours
  * ENGL 1113 Freshman Composition I
  and select 3 credit hours from the following:
  * ENGL 1213 Freshman Composition I
  * ENGL 2333 Technical/Professional Writing

Mathematics 3 hours
  + MATH 1473 Math for Critical Thinking

Psychology 3 hours
  PSYC 1113 Introduction to Psychology or
  PSYC 1313 Human Relations

Social Sciences 6 hours
  HIST 1483 U.S. History 1492 to Civil War Era
  Or
  HIST 1493 U.S. History Civil War Era to present
  POLS 1113 American Federal Government

Specialized Course Requirements Credit Hours: 44

Allied Health 3 hours
  + ALDH 1323 Medical Terminology

Cardiovascular Technology 41 hours
  * CVTC 1101 Introduction to Cardiovascular Technology
  * CVTC 1022 Cardiovascular Pharmacology
  * CVTC 1033 Cardiovascular Anatomy and Physiology
  * CVTC 1042 Cardiovascular Patient Assessment
  * CVTC 1053 Cardiovascular Physical Science
  * CVTC 1061 Clinical Practicum I
  * CVTC 1073 Cardiovascular Pathophysiology
  * CVTC 1083 Noninvasive Cardiovascular Theory and Techniques
  * CVTC 1093 Cardiovascular Diagnostics I
  * CVTC 1102 Cardiovascular Radiography
  * CVTC 1112 Clinical Practicum II
  * CVTC 1123 Clinical Practicum III
  * CVTC 1133 Invasive Cardiovascular Theory and Techniques
  * CVTC 1143 Cardiovascular Diagnostics II
  * CVTC 1153 Clinical Practicum IV
  * CVTC 1161 CCI Examination Review
  * CVTC 1173 Clinical Practicum V

Total Credit Hours: 73
  * Course has prerequisite (See course description section of catalog).
  ** Can be obtained through TCC Continuing Education
  o Course must be completed with a ‘C’ or above.
  + Prerequisite to admission to the Cardiovascular Technology Program
DENTAL ASSISTING

Program Description:
This program was developed by a joint effort of Tulsa Community College and Tulsa Technology Center. The Dental Assisting program option provides an opportunity for graduates of an accredited Dental Assisting program to develop additional skills in mathematics, English, humanities, social and biological sciences and to earn an Associate in Applied Science Degree. Dental Assistants are integral members of dental offices and clinics in a chair side setting. They assist dentists by passing instruments, mixing materials, taking impressions of teeth, fabricating temporary crowns, making custom trays and other operative procedures. Students should consult with the Associate Dean of the Allied Health Services Division for information and enrollment. Course Location: Dental Assisting Courses will be taken at Tulsa Technology Center, Lemley Campus. General Education courses will be offered by Tulsa Community College.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division at Metro Campus (918) 595-7002
TTC Career Resources Center Department: (918) 828-5151

Procedures For Application To Tulsa Technology Center:
1. Obtain an admission packet from Tulsa Technology Center. Packets are located at all Tulsa Technology Center campuses in the Adult Education office.
2. An admission test is required for full-time programs at Tulsa Technology Center (see admission packet for details).
3. Submit completed program application form and required documents by August 1st for the Fall semester to the Career Services Center, Tulsa Technology Center, Lemley Campus, 3420 S. Memorial Dr, Tulsa, OK 74145. Please call (918) 828-5200 for application deadlines.
4. All prospective Dental Assisting program students must complete an application for enrollment to the College and submit their high school transcripts, GED scores, ACT/SAT scores, college transcripts and any previous training and/or education to the Metro Campus Registrar at 909 S. Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Dental Assisting Associate of Applied Science Degree program.
5. Acceptance to Tulsa Community College does not guarantee admission to the Dental Assisting Associate of Applied Science Degree program. Graduates of Tulsa Technology Centers Dental Assisting program may seek national certification by accomplishing each of the following: high school graduation or equivalent; two years of full-time work experience as dental assistant, along with recommendation from the dentist employer; current cardiopulmonary resuscitation (CPR) certification with the American Heart Association or the American Red Cross; and passing the Dental Assisting national board certification examination (CDA). National Certification is administered by the Dental Assisting National Board, Inc., 216 E. Ontario St., Chicago, IL 6061, (312) 642-3368.

GENERAL EDUCATION REQUIREMENTS CREDIT HOURS: 28

Biology 7 hours
*BIO 1314 Human Anatomy and Physiology
*BIO 1323 Basic Microbiology

English 6 hours
*ENGL 1113 Freshman Composition I and select 3 credit hours from the following:
ENGL 1083 Grammar and Mechanics of Writing
*ENGL 1213 Freshman Composition II

Humanities 3 hours
PHIL 2153 Medical Ethics

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

SPECIALIZED COURSE REQUIREMENTS CREDIT HOURS: 20

Dental Assisting 20 hours
*DA 1124 Dental Assisting Introduction
*DAST 1133 Dental Anatomy and Physiology
*DA 1231 Office Procedures Dental
*DAST 1242 Operative Chairside Procedures I
*DAST 2344 Operative Chairside Procedures II
*DAST 2432 Radiology and Laboratory Procedures
*DAST 2444 Clinical Dental Assisting

RECOMMENDED ELECTIVES CREDIT HOURS: 14
ACCT 1003 Introduction to Accounting
ALDH 1323 Medical Terminology
Biol 1383 Nutrition
*CHEM 1114 Principles of Chemistry
*CHEM 1124 Introduction to Organic Chemistry
CSCI 1011 Introduction to Microcomputers
MKTG 2343 Customer Service
PSYC 1313 Human Relations
SOCI 1113 Introduction to Sociology

TOTAL CREDIT HOURS: 62
*Course has prerequisite (See course description section of catalog).
*Course must be completed with a “C” or above.

DENTAL HYGIENE

Program Description:
Dental Hygiene is an allied health profession which is concerned with the prevention and control of oral disease. This program prepares the student to be a dental hygienist, whose primary duties are to care for patients with an individualized oral health regimen which includes gathering of information......
about health status, and providing appropriate periodic oral prophylaxis, dental x-rays, oral health instruction and other prevention services. The dental hygienist is also prepared to apply preventive measures in community health programs. The Dental Hygiene Program is accredited by The Commission on Dental Accreditation, Chicago, Illinois. The graduate will receive an Associate Degree in Applied Science and be eligible to take national and state licensing and certifying examinations. After passing these examinations, the graduate may practice dental hygiene under the supervision of a licensed dentist. Individuals who have:
1. been addicted to narcotics or alcohol;
2. received treatment for the habitual use of narcotics or alcohol;
3. been convicted for a narcotics-related offense;
4. been reprimanded, disciplined, disqualified or suspended from the practice of dentistry or another health-related field;
5. been a patient in a sanitarium or institution for the treatment of mental illness;
6. been arrested/convicted of any felony offense, including a deferred sentence; may not be eligible for dental hygiene licensure in the state of Oklahoma. If any of these circumstances exist, it is advised that the prospective student discuss this with the Oklahoma Board of Dentistry, (405) 524-3592, prior to making application to the program.

Procedures For Application:
1. Applications are available through the Allied Health Services Division (918) 595-7002.
2. Submit ALL materials by the March 1st deadline to the Allied Health Services Division, room MP458, 909 South Boston, Tulsa, OK 74119.
3. All prospective Dental Hygiene students must complete an application for enrollment to the College, submit their high school transcripts, ACT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Dental Hygiene program.
4. Acceptance to Tulsa Community College does not guarantee admission to the Dental Hygiene program.
5. Prerequisite coursework for the Dental Hygiene program must be completed by the end of the Spring semester in which application is reviewed.

These prerequisites are:
- BIOL 1314 Human Anatomy and Physiology
- BIOL 1323 Basic Microbiology
- CHEM 1114 Principles of Chemistry or High School Chemistry
- CHEM 1124 Introductory Organic and Biochemistry
- ENGL 1113 Freshman Composition I
- ENGL 1213 Freshman Composition II
- ENGL 1313 Freshman Composition III
- ENGL 1323 Freshman Composition IV
- ENGL 1333 Pathology
- ENGL 1343 Periodontology
- ENGL 1353 Periodontology
- ENGL 1363 Dental Hygiene Theory I
- ENGL 1373 Dental Hygiene Theory II
- ENGL 1382 Clinical Dental Hygiene I
- ENGL 1394 Clinical Dental Hygiene II
- ENGL 1412 Dental Radiography Foundation
- ENGL 1421 Dental Radiography Techniques
- ENGL 1512 Dental Pain Management
- ENGL 1532 Dental Hygiene Pharmacology
- ENGL 2022 Special Needs / Geriatrics
- MATH 1313 Beginning Algebra or High School Algebra
- PSYC 1113 Introduction to Psychology
- SOCI 1113 Introduction to Sociology
- SPCH 1113 Speech Communication I
- HIST 1493 U.S. History Civil War Era to Present

Degree Awarded: Associate in Applied Science
For More Information Contact: Allied Health Services Division at Metro Campus: (918) 595-7002

General Education Requirements Credit Hours: 38-45

Biology 10 hours
- BIOL 1314 Human Anatomy and Physiology
- BIOL 1323 Basic Microbiology
- BIO 1383 Nutrition

Chemistry 4-8 hours
- CHEM 1114 Principles of Chemistry or
- High School Chemistry (with a “C” or better)
- CHEM 1124 Introductory Organic and Biochemistry

Computer Information Systems 3 hours
- CSCI 1203 Computer Concepts and Applications

English 6 hours
- ENGL 1113 Freshman Composition I
- ENGL 1213 Freshman Composition II

Mathematics 0-3 hours
- MATH 0013 Beginning Algebra or
- High School Algebra (with a “C” or better)

Psychology 3 hours
- PSYC 1113 Introduction to Psychology

Social Science 6 hours
- POLS 1113 American Federal Government
and select one course from the following:
- HIST 1483 U.S. History 1492 to Civil War Era
- HIST 1493 U.S. History Civil War Era to Present

Sociology 3 hours
- SOCI 1113 Introduction to Sociology

Speech 3 hours
- SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 53

Dental Hygiene 53 hours
- DHYG 1012 Dental and Oral Anatomy
- DHYG 1022 Head and Neck Anatomy
- DHYG 1303 Oral Embryology and Histology
- DHYG 1333 Pathology
- DHYG 1353 Periodontology
- DHYG 1363 Dental Hygiene Theory I
- DHYG 1373 Dental Hygiene Theory II
- DHYG 1382 Clinical Dental Hygiene I
- DHYG 1394 Clinical Dental Hygiene II
- DHYG 1412 Dental Radiography Foundation
- DHYG 1421 Dental Radiography Techniques
- DHYG 1512 Dental Pain Management
- DHYG 1532 Dental Hygiene Pharmacology
- DHYG 2022 Special Needs / Geriatrics
HEALTH SCIENCE: ALLIED HEALTH

Chemistry 5 hours
*CHEM 1315 General Chemistry I

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Psychology or Sociology 3 hours
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 41
Medical Laboratory Technology 41 hours
+MDLT 1203 Phlebotomy
+MDLT 1212 Introduction to Medical Laboratory Technology
+*MDLT 1222 Phlebotomy Clinical
+*MDLT 2305 Basic Hematology
+*MDLT 2344 Clinical Chemistry I
+*MDLT 2365 Clinical Chemistry II
+*MDLT 2395 Clinical Microbiology
+MDLT 2426 Urinalysis, Immunology and Blood Banking
+*MDLT 2434 Clinical Practicum I
+*MDLT 2465 Clinical Practicum II

Total Credit Hours: 69
* Course has prerequisite (See course description section of catalog).
+ Course must be taken concurrently.
* Course must be completed with a “C” or above.

MEDICAL LABORATORY TECHNOLOGY

Phlebotomy

Program Description:
This option is for phlebotomy trainees and professionals new to the medical laboratory technology field who need to rapidly acquire phlebotomy (the drawing of blood) skills, as well as acquire a comprehensive overview of the key areas of the clinical laboratory to include specimen processing. The Phlebotomy Program is approved through the National Accrediting Agency for Clinical Laboratory Sciences. Graduates with a phlebotomy certificate may apply for the National Phlebotomy Registry examination through the American Society of Clinical Pathology.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Allied Health Services Division at Metro Campus:
(918) 595-7002 for program application form and any specific program information.

Procedures For Application:
1. Submit completed program application form and required materials by July 15th and November 15th to the Allied Health Services Division located in the Alfred M. Philips Building, room MP 458, 909 South Boston, Tulsa, OK 74119.
2. All prospective Medical Laboratory technology program students must complete an application for enrollment to the College, submit their high school transcript, ACT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Medical Laboratory Technology program.
3. Acceptance to Tulsa Community College does not guarantee admission into the Medical Laboratory Technology program.
4. Eligible applicants to be interviewed will be notified by mail for consideration for admission into the Medical Laboratory Technology program. All interviewed applicants will be notified by mail regarding their selection status.
5. In order to enroll in courses that include a clinical component and are part of the program degree plan, students must receive clearance on a criminal background check, including sex offender registry.

General Education Requirements Credit Hours: 28

Biology 8 hours
*Biol 3134 Human Anatomy and Physiology
*Biol 2164 Microbiology

Medical Laboratory Technology 41 hours
+MDLT 1203 Phlebotomy
+MDLT 1212 Introduction to Medical Laboratory Technology
+*MDLT 1222 Phlebotomy Clinical
+*MDLT 2305 Basic Hematology
+*MDLT 2344 Clinical Chemistry I
+*MDLT 2365 Clinical Chemistry II
+*MDLT 2395 Clinical Microbiology
+MDLT 2426 Urinalysis, Immunology and Blood Banking
+*MDLT 2434 Clinical Practicum I
+*MDLT 2465 Clinical Practicum II

Total Credit Hours: 69
* Course has prerequisite (See course description section of catalog).
+ Course must be taken concurrently.
* Course must be completed with a “C” or above.

MEDICAL LABORATORY TECHNOLOGY

Phlebotomy

Program Description:
This program prepares the student to perform tests and related duties in a medical laboratory with the supervision of a medical technologist. The Medical Laboratory Technician Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Upon successful completion of the program, students may sit for the National Registry sponsored by the American Society of Clinical Pathology.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division at Metro Campus:
(918) 595-7002 for program application form and any specific program information.

Procedures For Application:
1. Submit completed program application form and required materials by July 15th to the Allied Health Services Division located in the Alfred M. Philips Building, room MP 458, 909 South Boston, Tulsa, OK 74119.
2. All prospective Medical Laboratory technology program students must complete an application for enrollment to the College, submit their high school transcript, ACT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Medical Laboratory Technology program.
3. Acceptance to Tulsa Community College does not guarantee admission into the Medical Laboratory Technology program.
4. Eligible applicants to be interviewed will be notified by mail for consideration for admission into the Medical Laboratory Technology program. All interviewed applicants will be notified by mail regarding their selection status.
5. In order to enroll in courses that include a clinical component and are part of the program degree plan, students must receive clearance on a criminal background check, including sex offender registry.

General Education Requirements Credit Hours: 28

Biology 8 hours
*Biol 1314 Human Anatomy and Physiology
*Biol 2164 Microbiology

Chemistry 5 hours
*CHEM 1315 General Chemistry I

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Psychology or Sociology 3 hours
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 41
Medical Laboratory Technology 41 hours
+MDLT 1203 Phlebotomy
+MDLT 1212 Introduction to Medical Laboratory Technology
+*MDLT 1222 Phlebotomy Clinical
+*MDLT 2305 Basic Hematology
+*MDLT 2344 Clinical Chemistry I
+*MDLT 2365 Clinical Chemistry II
+*MDLT 2395 Clinical Microbiology
+MDLT 2426 Urinalysis, Immunology and Blood Banking
+*MDLT 2434 Clinical Practicum I
+*MDLT 2465 Clinical Practicum II

Total Credit Hours: 69
* Course has prerequisite (See course description section of catalog).
+ Course must be taken concurrently.
* Course must be completed with a “C” or above.
HEALTH SCIENCE: ALLIED HEALTH

2. All prospective Medical Laboratory Technology program, Phlebotomy Option, students must complete an application for enrollment to the College, submit their high school transcript, ACT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Medical Laboratory Technology program, Phlebotomy Option.

3. Acceptance to Tulsa Community College does not guarantee admission into the Medical Laboratory Technology program, Phlebotomy Option.

4. Eligible applicants to be interviewed will be notified by mail for consideration for admission into the Medical Laboratory Technology program, Phlebotomy Option. All interviewed applicants will be notified by mail regarding their selection status.

5. In order to enroll in courses that include a clinical component and are part of the program degree plan, students must receive clearance on a criminal background check, including sex offender registry.

Certificate Requirements Credit Hours: 7

Medical Laboratory Technology 7 hours
º MDLT 1203 Phlebotomy
** MDLT 1212 Introduction to Medical Laboratory Technology
º+ MDLT 1222 Phlebotomy Clinical

Total Credit Hours: 7
* Course has prerequisite (See course description section of catalog).
º Course must be completed with a "C" or above.
** Course required for Medical Laboratory Technology majors.
+ Course must be taken concurrently.

OCCUPATIONAL THERAPY ASSISTANT

Program Description:
This program is designed to prepare a student to perform occupational therapy procedures and related tasks under the direction and supervision of a Registered Occupational Therapist. The Occupational Therapy Assistant performs various treatment procedures delegated by the Registered Occupational Therapist to patients with physical, psychological, or cognitive disabilities. The Assistant also will work independently in programs to prevent disability and maintain health, such as Activity Director.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division at Metro Campus:
(918) 595-7002 for program application form and any specific program information.

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTAs phone number is (301) 652-2682

Graduates of the program will be able to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

Admission To The Program:
The program admits one class each year in the summer semester. Prospective students are required to complete the application process by January 15 of each year.

Procedures for Application:
1. Submit completed program application form and required materials by January 15 to the Allied Health Services Division located in the Alfred M. Phillips Building, room MP458, 909 South Boston Avenue, Tulsa, OK 74119.

2. All prospective Occupational Therapy Assistant program students must complete an application for enrollment to the College, submit their high school transcripts, ACT scores and previous college transcripts to the Metro Campus Registrars Office at 909 South Boston Avenue, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Occupational Therapy Assistant program.

3. Acceptance to Tulsa Community College does not guarantee admission to the Occupational Therapy Assistant program.

4. Interviews will be granted to applicants who meet the programs minimum requirements. All interviewed applicants will be notified by mail regarding their selection status.

5. In order to enroll in courses that include a clinical component and are part of the program degree plan, students must receive clearance on a criminal background check, including sex offender registry.

General Education Requirements Credit Hours: 22

Biology 4 hours
* BIOL 1314 Human Anatomy and Physiology

English 6 hours
* ENGL 1113 Freshman Composition I
* ENGL 1213 Freshman Composition II

Psychology 6 hours
PSYC 1113 Introduction to Psychology
and select one course from the following:
* PSYC 2023 Developmental Psychology
PSYC 2193 Personality Theories

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present
HEALTH SCIENCE: ALLIED HEALTH

Specialized Course Requirements Credit Hours: 46

Occupational Therapy Assistant 46 hours
ºOTA 1203 Introduction to Occupational Therapy
ºOTA 1293 Introduction to Occupational Therapy II
ºOTA 1303 Clinical Conditions, Terminology, and Skills
ºOTA 1352 Neuro Anatomy and Physiology for OTAs
ºOTA 1363 Applied Anatomy for OTAs
ºOTA 1403 Therapeutic Media
ºOTA 1483 Physical Disabilities
ºOTA 1443 Psychosocial Theory and Practice
ºOTA 1502 Fieldwork I
ºOTA 2203 Therapeutic Adaptations
ºOTA 2233 Developmental Disabilities Theory and Practice
ºOTA 2263 Current Trends in Occupational Therapy
ºOTA 2356 Fieldwork II A
ºOTA 2376 Fieldwork II B

Total Credit Hours: 68
ºCourse has prerequisite (See course description section of catalog).
ºIt is recommended that students intending to pursue a Bachelor's degree in Occupational Therapy counsel with an OCTA faculty member to select appropriate electives.
ºCourse must be completed with a "C" or above.
NOTE: When you apply to write the certification examination with the National Board for Certification in Occupational Therapy (NBCOT), you will be asked to answer questions related to the topic of felonies. For further information on these limitations, you may contact the NBCOT at: National Board for Certification in Occupational Therapy 4720 Montgomery Lane P.O. Box 31220 Bethesda, MD 20824-1220

PHARMACY TECHNOLOGY
Pharmacy Technician Certificate

Program Description:
The Pharmacy Technician Program at Tulsa Community College prepares individuals to work under the supervision of registered pharmacists in providing a high level of modern pharmaceutical care in hospitals, clinics, extended care facilities, nursing homes and other organized health care settings. Their duties may include prescription order processing, inventory activities, quality assurance and control, over-the-counter sales, customer service and relations, product prepackaging, bulk compounding, parenteral IV admixture operations, third party processing and computer operations. A faster than average growth in the profession is expected. The demand for qualified technicians is increasing due to cost containment, advanced technology and changes in legislation.

Program Information:
The Pharmacy Technician Program admits a new class each full semester beginning in August and January. Admission to the class is limited to 25 students. The Pharmacy Technician classes are offered in the evenings on the Metro Campus and will take 16 weeks to complete. The graduates of this one semester program will receive a Certificate of Achievement and will be eligible to take the National Pharmacy Technician Certification Examination through the Pharmacy Technician Certification Board (PTCB). Individuals who have been convicted of a felony or a crime involving moral turpitude, or who have a substance abuse problem, may not be eligible for licensure in the State of Oklahoma or as a candidate for national certification. If any of these circumstances exist, you may wish to contact the Oklahoma State Board of Medical Licensure and Supervision, P.O. Box 18256, Oklahoma City, OK 73154 and the Pharmacy Technician Certification Board, 2215 Constitution Avenue, NW, Washington, D.C. 20037-2985.

ACCREDITATION
The Pharmacy Technology Program at Tulsa Community College is accredited by the Oklahoma State Board of Regents for Higher Education.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Allied Health Services Division: Metro: (918) 595-7002

Application Instructions:
1. Complete the Tulsa Community College Application for Admission and submit it to the Registrar's Office if you have not been enrolled at TCC within the past year.
2. Send official high school transcript or GED scores to the Registrar's Office. High school seniors should send a seven (7th) semester transcript. Upon completion of high school, another official transcript must be sent with final grades and graduation date.
3. Send official college transcript(s) to the Registrar's Office from each college attended.
4. Send official ACT/SAT scores to the Registrar's Office. (Each candidate must have either an ACT or SAT score to be considered for the program, regardless of age or educational background.)
5. First-time college students must meet with a counselor in the Counseling and Testing Center regarding new student orientation, CPT (College Placement Test) and possible high school curricular deficiencies.
6. College students new at TCC must meet with a counselor regarding the CPT (College Placement Test). Each applicant must show a proficiency in English, Reading and Science.
7. Send the completed Pharmacy Technology Program application for admission to the Allied Health Services Division by June 15 for the Fall semester and by November 15 for the Spring semester.
8. In order to enroll in courses that include a clinical component, which are a part of the program plan, all Allied Health Services students are required to complete and receive clearance on a criminal background check, including sex offender registry.

Selection Criteria:
A selection committee reviews all applications. Qualified applicants will be granted an interview with the Pharmacy Technology Program faculty. Qualified applicants are then ranked from the highest to the lowest score according to an established point system. The top 20-25 applicants are selected for the next semester class and are notified of their selection within two weeks of their interview. The selection criteria is based upon the following:
• Cumulative GPA of 2.0
• ACT/SAT Composite Score minimum of 14
• High School GPA of 2.5 (if less than 12 college credit hours)
• Submission of high school transcript or GED
• Submission of college transcript(s)
• Interview
Certificate Requirements Credit Hours: 16

Pharmacy Technology 16 hours
O*PHMT 1318 Introduction to Pharmacy Technician I
O*PHMT 1414 Pharmacy Technician Practicum I
O*PHMT 1524 Preceptorship I

Total Credit Hours: 16
*Course has prerequisite (see course description section of catalog)
O Course must be completed with a “C” of above.

PHYSICAL THERAPIST ASSISTANT

Program Description:
Tulsa Community College offers a 5-semester Physical Therapist Assistant Program accredited by The Commission on Accreditation in Physical Therapy Education Department of Accreditation
American Physical Therapy Association
1111 North Fairfax Street
Alexandria, VA 22314
Telephone: 703-706-3245
Website: www.apta.org/CAPTE

The graduate of this program is eligible to apply for the National Physical Therapy Examination for the physical therapist assistant. Individuals who have been convicted of a felony or of a crime involving moral turpitude, or who have had a drug problem, may not be permitted to take the licensure examination. If any of these circumstances exist, you may wish to contact the Oklahoma State Board of Medical Licensure and Supervision, 405-848-6841 for clarification. The physical therapist assistant is a technically educated health care provider who assists the physical therapist in the provision of physical therapy. The physical therapist assistant may perform procedures and related tasks that have been selected and delegated by the supervising physical therapist. To further investigate the role of the physical therapist assistant, contact the American Physical Therapy Association at www.apta.org. Successful completion of this program requires that the student perform at a “C” level or better in all of their physical therapist assistant courses.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division at Metro Campus:
(918) 595-7002 for program application form and any specific program information.

Admission To The Program:
Program admits one class each year during the spring semester. Prospective students MUST request an application to the program by December 15th of each year.

Procedure For Application:
1. Submit completed program application form and required materials by January 20 to the Allied Health Services Division located in the Alfred M. Philips Building, room MP458, 909 South Boston, Tulsa, OK 74119.
2. All prospective Physical Therapist Assistant Program students must complete an application for enrollment to the College, submit their high school transcripts, ACT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK.

General Education Requirements Credit Hours: 19

Biology 4 hours
**BIOL 1314 Human Anatomy and Physiology

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 - Technical / Professional Writing

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 50

Allied Health 3 hours
*ALDH 1323 Medical Terminology

Physical Therapist Assistant 47 hours
*PHTA 1203 Anatomy and Physiology for PTAs
*PHTA 1231 Clinical Practice I
*PHTA 1242 Human Growth and Development
*PHTA 1303 Introduction to Physical Therapy
*PHTA 1363 Kinesiology for PHTA’s
*PHTA 1383 Pathophysiology for PTAs
*PHTA 1392 Clinical Procedures I
*PHTA 2113 Rehabilitation
*PHTA 2332 Clinical Practice II
*PHTA 2343 Clinical Procedures II
*PHTA 2373 Therapeutic Exercise I
*PHTA 2383 Therapeutic Exercise II
*PHTA 2432 Clinical Practice III
*PHTA 2442 Psychosocial Aspects of Physical Therapy
*PHTA 2486 Clinical Practice IV
*PHTA 2543 Neuroscience
*PHTA 2522 Special Studies in Clinical Practice
*PHTA 2551 Pharmacology for PTAs

Total Credit Hours: 69
*Course has prerequisite (See course description section of catalog).
**Student may substitute BIOL 2154 and BIOL 2134 for BIOL 1314.
*Course must be completed with a “C” or above.
RADIOGRAPHY
(X-ray)

Introduction:
The Radiography (X-ray) Program at Tulsa Community College is designed to prepare students with the knowledge and skills to function as medical radiographers. The program is nationally accredited by the Joint Review Committee on Education in Radiologic Technology. The graduates of this program receive an Associate Degree in Applied Science and are eligible to apply for the American Registry of Radiologic Technologists Examination.

Position Description:
Medical Radiographers/Radiologic Technologists are the medical personnel who perform diagnostic imaging examinations. Radiographers use x-rays to produce black and white images of anatomy. These images are captured on film, computer or videotape. Radiographers are educated in anatomy, patient positioning, examination techniques, equipment protocols, radiation safety, radiation protection and basic patient care. Radiographers often specialize in areas of CT, MRI, Mammography, Cardiovascular Technology, Quality Control, Management and Education. Radiographers work closely with radiologists, physicians who interpret medical images to either diagnose or rule out disease or injury.

Program Information:
The Radiography (X-ray) Program admits a new class each year beginning in June (summer term). The number of students admitted to the class is limited to 35 students. The Radiography courses are offered during the day only and will take a total of six (6) semesters to complete. The program consists of 50 credit hours of radiography lecture and clinical courses and 22 credit hours of related general education courses.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Service Division located in the Alfred M. Philips Building, Metro Campus, Room MP 458, 909 South Boston, Tulsa, OK 74119, (918) 595-7002 for program application and specific information.

Application Instructions:
1. Complete the Tulsa Community College Application for Admission and submit it to the Registrars Office, if you have not been enrolled at TCC within the past year.
2. Send official High School Transcript or GED scores to the Registrars Office. High school seniors should send seventh (7th) semester transcript. Upon completion of high school, another official transcript must be sent with final grades and graduation date.
3. Send official College transcript(s) to the Registrars Office from each college attended.
4. Send official ACT/SAT scores to the Registrars Office. (Each applicant must have either ACT/SAT scores to be considered for the program.)
5. First-time college students must meet with counselors regarding new student orientation, CPT (College Placement Test) and possible high school curricular deficiencies.
6. College students new at TCC must meet with counselors regarding CPT (College Placement Test). Each applicant must show proficiency in English, Reading and Science.
7. Send the completed Allied Health Radiography Program Application for admission to the Allied Health Services Division by February 1. (All information required for the Radiography Program must be on file by February 1, including TCC Application, Program Application, Transcripts, and ACT/SAT Scores).
8. Acceptance to TCC does not guarantee admission to the Radiography Program.
9. All prospective applicants are encouraged to enroll in: BIOL 1314 Human Anatomy and Physiology, RADT 1212 Introduction to Radiography, RADT 1201 Introduction to Radiographic Clinical Education.
10. All applicants will be contacted by the program director for an informational visit and will be ranked for acceptance according to their academic background.
11. In order to enroll in courses that include a clinical component and are part of the degree plan, students must receive clearance on a criminal background check, including sex offender registry.

General Education Requirements Credit Hours: 22

Biology 4 hours
**BIOL 1314 Human Anatomy and Physiology

English 6 hours
*ENGL 1113 Freshman Composition I
and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 3 hours
Select one course from the following:
*MATH 1473 Mathematics for Critical Thinking
*MATH 1513 College Algebra

Psychology 3 hours
PSYC 1113 Introduction to Psychology
PSYC 1313 Human Relations

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 50

Radiography 50 hours
*RADT 1212 Introduction to Radiography
*RADT 1224 Radiographic Clinical Education I
*RADT 1313 Radiographic Anatomy and Positioning I
*RADT 1324 Radiographic Clinical Education II
*RADT 1333 Radiographic Anatomy and Positioning II
*RADT 1344 Radiographic Clinical Education III
*RADT 1372 Radiographic Technique
*RADT 1382 Advanced Radiographic Technique
*RADT 2301 Radiographic Seminar
*RADT 2314 Radiographic Clinical Education IV
*RADT 2323 Radiographic Special Procedures
*RADT 2336 Radiographic Clinical Education V
*RADT 2343 Radiographic Biology and Pathology
*RADT 2356 Radiographic Clinical Education VI
*RADT 2383 Radiographic Physics

Total Credit Hours: 72
*Course has prerequisite (See course description section of catalog).
**Student may substitute BiOL 2154 and BIOL 2134.
*Course must be completed with a “C” or above.
RESPIRATORY CARE

Program Description:
The Respiratory Care Program at Tulsa Community College (TCC) is designed to prepare individuals with the knowledge, skills and behaviors that are required for successful advanced respiratory therapists. If you enjoy working in a fast-paced environment where your technical and scientific responsibilities will be matched by a real need for human relations skills, then the TCC Respiratory Care Program may be for you. Respiratory Care is a health care specialty that offers a set of unique challenges in the areas of prevention, diagnosis, treatment, management and rehabilitation of people with lung disorders. As an advanced respiratory therapist, you will be involved in a wide variety of lifesaving and life-supporting situations, working side by side with physicians, nurses and others on the health care team. You will treat patients ranging from newborns to senior citizens. Your expertise will be in demand and opportunities to expand your knowledge and skills will be great.

Program Information:
The Respiratory Care Program at TCC generally accepts 20-25 students each year beginning in the fall semester. The general education courses may be taken prior to being accepted into the program to lighten semester course loads. Human Anatomy and Physiology (BIOL 1314) is a prerequisite course that must be taken prior to acceptance into the program. The Respiratory Care Program is a 2-year, 5-semester, full-time day program consisting of specialized courses offered in a specific sequence. Graduates of the program are awarded an Associate Degree in Applied Science and are eligible to apply for the National Board for Respiratory Care (NBRC) Certification and Registry Examinations.

Accreditation:
The Respiratory Care Program at Tulsa Community College is nationally accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Committee on Accreditation for Respiratory Care (CoARC).

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division: Metro: (918)-595-7002

Application Instructions:
1. Complete the Tulsa Community College Application for Admission and submit it to the Registrars Office if you have not been enrolled at TCC within the past year.
2. Send official high school transcript or GED scores to the Registrars Office. High school seniors should send a seven (7th) semester transcript. Upon completion of high school, another official transcript must be sent with final grades and graduation date.
3. Send official college transcript(s) to the Registrars Office from each college attended.
4. Send official ACT/SAT scores to the Registrars Office. (Each candidate must have either an ACT or SAT score to be considered for the program, regardless of age or educational background.)
5. First-time college students must meet with a counselor in the Counseling and Testing Center regarding new student orientation, CPT (College Placement Test) and possible high school curricular deficiencies.
6. College students new at TCC must meet with a counselor regarding the CPT (College Placement Test). Each applicant must show a proficiency in English, Reading and Science.
7. Send the completed Respiratory Care Program application for admission to the Allied Health Services Division by July 1.
8. In order to enroll in courses that include a clinical component and are part of the program degree plan, students must receive clearance on a criminal background check, including sex offender registry.

Selection Criteria
A selection committee reviews all applications. Qualified applicants will be granted an interview with the Respiratory Care Program faculty. Qualified applicants are then ranked from the highest to the lowest score according to an established point system. The top 20-25 applicants are selected for the next fall semester class and are notified of their selection by the middle of July. The selection criteria are based upon the following:

• Cumulative GPA
• ACT/SAT Composite Score
• High School GPA (if less than 12 college credit hours)
• Math and/or Science GPA
• Math and Science ACT/SAT Score
• Interview

General Education Requirements Credit Hours: 19

Biology 4 hours
o+BIOL 1314 Human Anatomy and Physiology

English 6 hours
*ENGL 1113 Freshman Composition I and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 50

o+RESP 1213 Neonatal and Pediatric Respiratory Care
o+RESP 1233 Applied Sciences for Respiratory Care
o+RESP 1242 Respiratory Care Patient Assessment
o+RESP 1251 Physician/Therapist Interaction
o+RESP 1313 Respiratory Care Theory and Techniques I
o+RESP 1353 Cardiopulmonary Anatomy and Physiology
o+RESP 1403 Respiratory Care Theory and Techniques II
o+RESP 1413 Clinical I
o+RESP 1443 Respiratory Care Pathophysiology
o+RESP 1511 Clinical Procedure Laboratory
o+RESP 1522 - Introduction to Mechanical Ventilation
o+RESP 2103 Clinical II
o+RESP 2203 Clinical III
HEALTH SCIENCE: ALLIED HEALTH/MEDICAL OFFICE SUPPORT

**HEALTH INFORMATION TECHNOLOGY**

**Medical Records**

Program Description:
This program of study prepares the student for employment in the field of health information management in a variety of health care settings including hospitals, physician's office or clinic, home health agencies, hospice, long term care facilities, rehabilitation facilities, psychiatric care settings, insurance companies, and pharmaceutical companies. Career options for the Health Information Technician include coding and reimbursement specialist; clinical data specialist (statistics, database research, and specialty registries); patient information coordinator (release of information, confidentiality, medical-legal aspects of documentation, health history management and information resources); data quality manager (quality improvement for data integrity, and quality care/service monitoring and audits); document and repository manager (retention and accessibility of health care data, and preparation and conversion to electronic health records); and health information manager (enterprise- or facility-wide line or staff manager for health information management services). This program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). After graduation, students are eligible to apply to write the national qualifying examination for certification as a Registered Health Information Technician (RHIT).

Degree Awarded: Associate in Applied Science

For More Information Contact:
Allied Health Services Division: Metro: (918) 595-7002 for program application form and any specific program information.

Procedures For Application:
1. Submit completed program application form and required materials by May 1 to the Allied Health Services Division located in the Alfred M. Philips Building, Room MP458, 909 South Boston, Tulsa, OK 74119.

2. All prospective Health Information Technology students must also complete an application for enrollment to the College, submit their high school transcripts or GED scores, ACT or SAT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Health Information Technology program.

3. Acceptance to Tulsa Community College does not guarantee admission to the Health Information Technology program.

4. Eligible applicants to be interviewed will be notified by mail for consideration for admission into the Health Information Technology program. All interviewed applicants will be notified by mail regarding their selection status.

5. In order to enroll in courses that include a clinical component and are a part of the program degree plan, students must receive clearance on a criminal background check, including the sex offender registry.

General Education Requirements Credit Hours: 16

**Biology 4 hours**
**ENGL 1213 Freshman Composition I**
**ENGL 1213 Freshman Composition II**
**ENGL 2333 Technical/Professional Writing**

**English 6 hours**
**ENGL 1113 Freshman Composition I**
**ENGL 1113 Freshman Composition II**
**ENGL 2333 Technical/Professional Writing**

**Social Science 6 hours**
**POLS 1113 American Federal Government**
**HIST 1483 U.S. History 1492 to Civil War Era**
**HIST 1493 U.S. History Civil War Era to Present**

Remaining general education requirements are satisfied by selection of an applicable course from the controlled electives section.

Specialized Course Requirements Credit Hours: 50

**Allied Health 3 hours**
**ALDH 1323 Medical Terminology**

**Computer Information Systems 3 hours**
**CSYS 2073 MS Office**

**Health Information Technology 44 hours**
**HITC 1113 Introduction to Health Information Management**
**HITC 1131 Health Care Delivery, Systems and Trends**
**HITC 1213 Statistics and Data Management**
**HITC 1231 Management of Medical Document Processing**
**HITC 1242 Health Information Management in Alternate Care Settings**
**HITC 1333 CPT and HCPCS Coding**
**HITC 1353 Legal Aspects of Health Records**
**HITC 1363 ICD-9-CM Coding I**
**HITC 1412 Practicum I**
**HITC 2053 Pathophysiology and Pharmacology I**
**HITC 2113 Management Techniques for Health Information Services**
**HITC 2121 Physician Billing and Reimbursement**
**HITC 2133 Reimbursement Systems and Classification**
**HITC 2153 Pathophysiology and Pharmacology II**
**HITC 2213 Quality, Utilization and Risk Assessment**
**HITC 2342 Coding and Reimbursement Internship**
**HITC 2403 ICD-9-CM Coding II**
**HITC 2412 Practicum II**

Controlled Electives Credit Hours: 3
HEALTH SCIENCE: MEDICAL OFFICE SUPPORT

Choose 3 credit hours from the courses listed below.
**BUSN 1313 Employee/Employer Relations
**BUSN 2363 Supervisory Management
**CSCI 1161 Introduction to the Internet
**CSCI 1253 Internet Research
**CSCI 1263 Network Fundamentals
**CSCI 1463 Disk Operating Systems
**CSCI 1711 Introduction to PowerPoint
**CSCI 2013 Word
**CSCI 2043 Access
**CSCI 2163 Windows Operating Systems
**ENGL 1141 Effective Business Writing
**ENGL 2343 Business Communications
**HRES 2323 Employment and Evaluation Techniques
**PLGL 2502 Medical Record Analysis for Paralegals
**MDTR 2303 Medical Transcription I
**MGMT 1003 Team Basics
**MGMT 1233 Health Care Management
**MGMT 2363 Principles of Management
**MGMT 2041 Effective Problem Solving
**MGMT 2123 Leadership Development
**MGMT 2363 Principles of Management
**MGMT 2403 Critical Thinking for Results
**PHIL 2153 Medical Ethics
**PSYC 1313 Human Relations
**SPCH 1113 Speech Communication I

Total Credit Hours: 69
*Course has prerequisite (See course description of catalog).
**Course must be completed with a “C” or above.
^Satisfies General Education Requirement.

HEALTH INFORMATION TECHNOLOGY

Coding and Reimbursement Specialist

Program Description:
This option is designed to prepare the student with the necessary skills to be employed as a coding and reimbursement specialist in a variety of health care settings including hospitals, physicians office or clinic, home health agencies, hospice, long-term care facilities, rehabilitation facilities, insurance companies, and pharmaceutical companies. ICD-9-CM and CPT coding guidelines will be examined in detail, as will insurance and reimbursement issues such as claims processing, case mix index, and reimbursement systems, (i.e., diagnosis related groups (DRGs), ambulatory patient classification (APCs), resource based relative value system (RBRVS), resource utilization groups (RUGs), case mix groups (CMG) and home health resource groups (HHRG). Students successfully completing the certificate option may apply to sit for a national examination to become a certified coding associate (CCA). After 2-3 years of recommended coding experience, the graduate may sit for the national certified coding specialist (hospital based, CCS, physician based, CCS-P) examination. The Coding and Reimbursement Specialist Certificate program has been approved by the American Health Information Management Association (AHIMA).

Degree Awarded: Certificate of Achievement

For More Information Contact:
Allied Health Services Division: Metro: (918) 595-7002, for program application form and any specific program information.

Procedures For Application:
1. Submit completed program application form and required materials by May 1 to the Allied Health Services Division located in the Alfred M. Philips Building, Room MP458, 909 South Boston, Tulsa, OK 74119.
2. All prospective Coding and Reimbursement Specialist Certificate students must also complete an application for enrollment to the College, submit their high school transcripts, or GED scores; ACT or SAT scores and previous college transcripts to the Metro Campus Registrar at 909 South Boston, Tulsa, OK 74119. Incomplete submissions will not be considered for admission into the Coding and Reimbursement Specialist Certificate program.
3. Acceptance to Tulsa Community College does not guarantee admission to the Health Information Technology Coding and Reimbursement Specialist Certificate program.
4. Eligible applicants to be interviewed will be notified by mail for consideration for admission into the Health Information Technology - Coding and Reimbursement Specialist Certificate program. All interviewed applicants will be notified by mail regarding their selection status.
5. In order to enroll in courses that include a clinical component and are a part of the program degree plan, students must receive clearance on a criminal background check, including the sex offender registry.

General Education Requirements Credit Hours: 4

Biology 4 hours
**BIOL 1314 Human Anatomy and Physiology

Specialized Course Requirements Credit Hours: 33

Allied Health 3 hours
**ALDH 1323 Medical Terminology

Computer Information Systems 3 hours
**CSYS 2073 MS Office

Health Information Technology 27 hours
**HITC 1113 Introduction to Health Information Management
**HITC 1131 Health Care Delivery, Systems and Trends
**HITC 1242 Health Information Management in Alternate Care Settings
**HITC 1333 CPT and HCPCS Coding
**HITC 1363 ICD-9-CM Coding I
**HITC 2053 Pathophysiology and Pharmacology I
**HITC 2133 Reimbursement Systems and Third Party Payer Issues
**HITC 2121 Physician Billing and Reimbursements
**HITC 2153 Pathophysiology and Pharmacology II
**HITC 2342 Coding and Reimbursement Internship
**HITC 2403 ICD-9-CM Coding II

Total Credit Hours: 37
*Course has a prerequisite (See course description section of catalog).
**Course must be completed with a “C” or above.
HEALTH SCIENCE: MEDICAL OFFICE SUPPORT

MEDICAL ASSISTANT PROGRAM

Clinical / Administrative Certificate

Program Description:
The Medical Assistant Program at Tulsa Community College is nationally accredited by the commission on Accreditation of Allied Health Education Program (CAAAHEP) upon the recommendation of the Curriculum Review Board (CRB) of the American Association of Medical Assistants’ Endowment (AAMAE).

Accreditation:
The Medical Assistant Program at Tulsa Community College is nationally accredited by the commission on Accreditation of Allied Health Education Program (CAAAHEP) upon the recommendation of the Curriculum Review Board (CRB) of the American Association of Medical Assistants’ Endowment (AAMAE).

Program Information:
Prerequisites should be taken prior to admission to the program. Prospective students should submit an application for admission to Tulsa Community College and the Medical Assistant program application by May 1 each year.

Degree Awarded: Certificate of Achievement

For More Information Contact:
the Allied Health Services Division located in the Alfred M. Phillips Building, Metro Campus, Room MP 458, 909 South Boston Avenue, Tulsa, Oklahoma 74119, (918) 595-7002 for program application and any other specific information.

Procedures For Application:
1. Submit completed Tulsa Community College application for admission, high school or GED transcripts, ACT scores, and any previous technical school or college transcripts to Metro Campus Registrar at 909 South Boston Avenue, Tulsa, Oklahoma 74119.
2. All applicants must have a 2.5 GPA or better and / or an ACT of 19 or better or passing scores in all areas of the CPT. Submit completed Medical Assistant program application before May 1 to TCC Allied Health Services Division, Alfred M. Phillips Center, Room MP458, 909 South Boston Avenue, Tulsa, Oklahoma 74119.
3. All applicants must possess keyboarding by touch skills with ability to type 40 wpm on a typing test. If keyboarding skills are lacking, take BUSN 1123 and / or BUSN 1243.
4. All applicants must possess proficient computer skills with ability to pass a computer concepts and applications test or take CSCI 1203.
5. All applicants must possess current First Aid and CPR certification prior to enrollment in the medical assistant internship course.
6. Applicants selected for the program will receive a letter of acceptance through the mail.
7. All applicants must complete the prerequisite courses ALDH 1323, BIOL 1314. and CSCI 2013 with a ‘C’ or better prior to acceptance into the program.
8. All specialized courses in the MDAS Program must be passed with a grade of “C” or above.
9. In order to enroll in courses that include a clinical component, students must receive clearance on a criminal background check, including sex offender registry.

General Education Requirements Credit Hours: 10

Allied Health 3 hours
ALDH 1323 Medical Terminology

Biology 4 hours
BIOL 1314 Human Anatomy & Physiology

Computer Science 3 hours
CSCI 2013 Microsoft Word

Specialized Courses Requirements Credit Hours: 27

Medical Assistant 27 hours
*MDAS 1315 Clinical Procedures
*MDAS 1343 Medical Office Concepts and Applications
*MDAS 2234 Common Disease and Treatments
*MDAS 2243 Medical Office Financial Management and Applications
*MDAS 2333 Medical Assistant Internship
*MDAS 2346 Clinical Laboratory Procedures
*MDAS 2393 Medical Coding & Insurance Billing for the Physician Office

Total Credit Hours: 37

*Course has perquisite (See course description section of catalog)

MEDICAL ASSISTANT PROGRAM

Medical Transcription Certificate

Program Description:
The Medical Transcription program is a Certificate of Achievement that takes 3 semesters to complete and provides the training for an individual to work as a medical transcriptionist in a hospital, medical transcription service, physician’s office, clinic, laboratories, medical libraries, government medical facilities, other related health care setting or at home. Responsibilities include but are not limited to: Knowledge of professional ethics, confidentiality, record retention, commonly used medical report formats, basic grammar and mechanics of writing, proofreading and editing skills, computer concepts and word processing, medical terminology, human anatomy and physiology, laboratory testing, diagnostic procedures, common surgical procedures, basic pharmacology, and human disease processes.

Program Information:
Prospective students should submit an application for admission to Tulsa Community College and the Medical Transcription program by May 1 each year.
HEALTH SCIENCE: MEDICAL OFFICE SUPPORT

Degree Awarded: Certificate of Achievement

For more Information Contact:
Allied Health Services Division located in the Alfred M. Phillips Building, Metro Campus, Room MP 458, 909 South Boston Avenue, Tulsa, Oklahoma 74119, (918) 595-7002 for program application and any other specific information.

Procedures For Application:
1. Submit completed Tulsa Community College application for admission, high school or GED transcripts, ACT scores, and any previous technical school or college transcripts to Metro Campus Registrar at 909 South Boston Avenue, Tulsa, Oklahoma 74119.
2. All applicants must have a 2.5 GPA or better and / or an ACT of 19 or better or passing scores in all areas of the CPT.
3. Submit completed Medical Transcription Program application before May 1st to TCC Allied Health Services Division, Alfred M. Phillips Center, Room MP458, 909 South Boston Avenue, Tulsa, Oklahoma 74119.
4. All applicants must possess keyboarding by touch skills with ability to type 40 wpm on a typing test. If keyboarding skills are lacking, take BUSN 1123 and / or BUSN 2173.
5. All applicants must possess proficient computer skills with ability to pass a computer concepts and applications test or take CSCI 1203.
6. Applicants selected for the program will receive a letter of acceptance through the mail.
7. All general education and specialized courses in the Medical Transcription Program must be passed with a grade of "C" or above.

8. In order to enroll in courses that include a clinical component, students must receive clearance on a criminal background check, including sex offender registry.

General Education Requirements Credit Hours: 13

Allied Health 3 hours
ALDH 1323 Medical Terminology

Biology 4 hours
BIOL 1314 Human Anatomy & Physiology

Computer Science 3 hours
CSCI 2013 Microsoft Word

English 3 hours
ENGL 1083 Grammar and Mechanics of Writing

Specialized Course Requirements Credit Hours: 16

Medical Transcription 16 hours
*MDAS 2234 Common Disease and Treatments
*MDTR 2303 Medical Transcription I
*MDTR 2313 Medical Transcription II
*MDTR 2373 Medical Transcription III
*MDTR 2433 Medical Transcription Externship

Total Credit Hours: 29

*Course has prerequisite (See course description section of catalog.)
NURSING PROGRAMS

Setting the standard of nursing excellence for our community, TCC’s Nursing Programs have provided Tulsa and northeastern Oklahoma with thousands of excellent nursing professionals. With programs ranging from one to five semesters, students may earn an associate degree in nursing or prepare for nursing support positions through the certificate programs.

- The five-semester Nursing Program (RN) on page 189 is approved by both the Oklahoma Board of Nursing and the National League for Nursing Accrediting Commission. Students are eligible to take the National Council Licensure Exam for Registered Nurses (NCLEX-RN) upon successful completion of the program.
- An Advanced Placement Track, for Licensed Practical Nurses entering the Nursing program allows them to complete the Associate Degree in three semesters.
- In addition to the general education courses required for entry and progression in the TCC Associate Degree Nursing Program information is provided concerning additional general education courses (at TCC) that will provide the foundation for admission into many RN Bachelor of Science in Nursing (BSN) programs upon completion of TCC’s Nursing Program.
- The University of Oklahoma and TCC offer a Collaborative Bachelor of Science in Nursing (CBSN) degree. Students must meet all OU College of Nursing (OUCN) Criteria and be admitted to the OU college of Nursing. Students in this program take their Level 3 OUCN nursing courses at TCC then transfer to OUCN-Tulsa for their final year of nursing. Students completing this program receive a Bachelor of Science in Nursing (BSN) from the University of Oklahoma. Program and course information follow the Health Sciences, Pre-Nursing degree plan.
- The Patient Care Technician Certificate Program completed in a 16-week regular semester (8-week summer), provides graduates with eligibility to take the State Certification Exam to obtain the Advanced Unlicensed Assistant Certification from the Oklahoma Board of Nursing.
- The Geriatric Technician Certificate Program consists of two options 1) the Geriatric Technician Certificate that offers six (6) hours of college credit in eight (8) weeks or 2) The Certified Nursing Assistant (CNA) Career Ladder with three distinctive levels, similar to the proposed Oklahoma Certified Nurse Aid Career Ladder model.

NURSING

TCC Associate Degree Nursing Program

Program Description:
Tulsa Community College offers a five-semester Nursing Program that is accredited by the National League for Nursing Accrediting Commission (NLNAC) and approved by the Oklahoma Board of Nursing. The graduate receives an Associate Degree in Applied Science and is eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). All potential nursing students must have two (2) applications on file. The application to the College must be on file in the Office of the Registrar. The application for the Nursing Program must be submitted to the Nursing Division office, Metro Campus. These applications are available in the Nursing Division office, Metro Campus Or online at www.tulsacc.edu/nursing.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Nursing Division: Metro: (918) 595-7188
Counseling Center: Metro (918) 595-7151

The Nursing Program admits a new class each fall and each spring semester. Applicants become qualified for admission based on achievement of Nursing Program admission criteria by the application deadline date. Admission criteria is listed in the Program application. Deadlines for submitting the nursing applications are the second Friday in February for the fall semester class and the second Friday in September for the spring semester class. All applicants are notified of their admission status, in writing, within ten (10) to twelve (12) weeks of the application deadline dates. The admission decision is based on a ranking process (See the Nursing Application Packet). Students who are accepted to the Nursing Program must meet the following program and curriculum prerequisites prior to beginning nursing courses:
1. Attend Program Enrollment and Orientation sessions.
2. Earn required minimum scores on the entry tests (See the Nursing Application Packet for specific information related to nursing entry testing.)
3. Complete the following prerequisite semester courses of general education classes with a grade of “C” or higher.
   ENGL 1113 Freshman Comp I
   *CHEM 1114 Principles of Chemistry
   PSYC 1113 Introduction to Psychology
   *BIOL 2134 Human Anatomy
   BIOL 1224 Introduction to Biology for Majors
4. Provide documentation of Certification as a Nurse Assistant (CNA) or acceptable substitute. Demonstrate competency in CNA skills. (See nursing application packet.)
5. Students must make a minimum of “C” in all courses required at each level of the curriculum pattern for continued enrollment and graduation in the Nursing Program. See course descriptions for pre- and corequisite course requirements. A Nursing Program Curriculum Plan is available in the Nursing Division Office.
6. If admitted to the TCC Nursing program, students must receive clearance on a criminal background check, including sex offender registry, prior to the start of any required nursing courses.
7. Admission to Tulsa Community College does not guarantee admission to the Nursing Program. To be admitted to the Nursing Program and to remain in the program, the student must be in “good standing” at TCC.
8. See Nursing Administration Application packet for specific requirements related to criminal background check, health record requirements, and CPR certification. Potential students need to be aware that they may not be approved by the Oklahoma Board of Nursing to take the NCLEX-RN licensure examination if they have:
   1) Been arrested/convicted of any offense including a deferred sentence.
   2) Been declared judicially incompetent.
   3) Ever been convicted of a felony.
Ever had disciplinary action taken against another health related license. Those needing other information regarding this topic can obtain a copy of Guidelines for NCLEX Candidates with History of Arrests, Convictions, or prior Disciplinary Action in the Metro Campus Nursing Division office.

LPN Advanced Placement Track
The TCC Nursing Program offers an Advanced Placement Track for Licensed Practical Nurses (LPN) which allows for completion of nursing courses in as few as two or three semesters. To facilitate the progression of the working LPN, the courses of the Advanced placement Track are offered using on-line resources and some on-campus classroom and laboratory activities. Clinical rotations are typically during evening and weekend hours. The courses will consist of classroom, lab/clinical and blended/hybrid (internet-based). Students in the Advanced placement Track, must have access to a personal computer with broadband or DSL ISP (internet service provider). The first course, NURS 1393 LPN Bridge, may be offered each semester based on demand. After successful completion of NURS 1393, the student will be eligible to enter Level 3 Nursing courses or may be eligible to receive advanced standing based on review of standardized testing results (contact the Nursing Division Office for advanced placement testing information) and enter Level 4 classes. Upon successful completion of Level 4 and TCC graduation requirements, graduates receive an Associate in Applied Science and are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). LPNs interested in pursuing a degree through advanced placement should contact the Nursing Division office for an application and curriculum plan or access the Nursing Division web page (www.tulsacc.edu/nursing) for more information.

General Education Requirements Credit Hours: 38

English 6 hours
+*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Social Science 6 hours
POLS 1113 American Federal Government
and select 1 course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Psychology 6 hours
+PSYC 1113 Introduction to Psychology
*PSYC 2023 Developmental Psychology

Science 20 hours
+BIOL 1224 Introduction to Biology for Majors
+*BIOL 2134 Human Anatomy
*BIOL 2154 Human Physiology
*BIOL 2164 Microbiology
+*CHEM 1114 Principles of Chemistry

Specialized Course Requirements Credit Hours: 34

Nursing 34 hours (enrollment requires admission to Nursing Program)
NURS 1401 Nursing Issues & Perspectives I
NURS 1421 Nursing Issues & Perspectives II
NURS 1431 Introduction to Pharmacology and Dosage

Calculations
NURS 1446 Foundations of Nursing Practice
NURS 1457 Nursing of Adults w/Major Health Disruptions
NURS 2423 Nursing of Childbearing Families
NURS 2433 Nursing of Childbearing Families
NURS 2453 Nursing Promotion of Quality of Life
NURS 2512 Psychiatric / Mental Health Nursing
NURS 2564 Advanced Medical Surgical Nursing
NURS 2543 Transition to Novice Nurse

Total Credit Hours 72
*Has prerequisite (See above)
+Prerequisite course

Additional Nursing Courses/Electives
NURS 2303 Pharmacology
NURS 2403 Dosage Calculations For Nurses

BSN Articulation Option
In addition to the general education courses required for entry and progression in the TCC Nursing Program, these courses provide the foundation for admission into many RN-BSN programs upon completion of TCC’s Nursing Program.

Humanities 6 hours
Humanities requirements vary by BSN program. Please contact Academic Counselor for recommendations for specific programs

Mathematics 3 hours
*MATH 2193 Elementary Statistics

Social Science 6 hours
SOCI 1113 Introduction to Sociology
SOCI 2123 Introduction to Cultural Anthropology

Sciences 8 hours
BIOL 1383 Nutrition
*CHEM 1315 General Chemistry I (may be substituted for Nursing prerequisite

Most BSN programs require additional electives representing non-nursing courses for a total of up to 64-67 general education credits.

TCC-OU Collaborative Bachelor of Nursing
Information follows Health Sciences, Pre-Nursing in the programs that transfer sections of this catalog.

HEALTH SCIENCES
Pre-Nursing - University Transfer

Program Description:
This curriculum includes courses designed to meet lower division prerequisites for a baccalaureate program in Nursing. Students considering this major should consult a counselor and the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science
For More Information Contact:
Nursing Division: Metro (918) 595-7188
Science and Mathematics Division: Metro: (918) 595-7334
Northeast: (918) 595-7542, Southeast: (918) 595-7742
West: (918) 595-8193
Counseling Centers: Metro: (918) 595-7151
Northeast: (918) 595-7451, Southeast: (918) 595-7651 West:
(918) 595-8176

General Education Requirements Credit Hours: 24
See the General Education Requirements for the complete list. Science and Mathematics and 3 hours general education elective requirements satisfied in Specialized Course Requirements section.

English 6 Hours
ENGL 1113 Freshman Composition I
ENGL 1213 Freshman Composition II

Social Science 6 Hours
POLS 1113 American Federal Government
And select one course from the following
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Humanities 6 hours
See the General Education Requirements for complete list.

Psychology 6 hours
PSYC 1113 Introduction to Psychology
*PSYC 2023 Developmental Psychology

Specialized Course Requirements Credit hours: 36

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Science 24 hours
Biol 1224 Introduction to Biology for Majors
Biol 1383 Nutrition
*BIOL 2134 Human Anatomy
*BIOL 2154 Human Physiology
*BIOL 2164 Microbiology
*CHEM 1315 General Chemistry I

Controlled Electives 6 hours
Select classes that will apply to the University of your choice:
BUSN 1053 Introduction to Business
CSCI 1203 Computer Concepts and Applications
*CSCI 2033 Excel
*ENGL 2383 Advanced Composition
*MATH 2513 Finite Mathematics
SOCI 1113 Introduction to Sociology

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

NOTE: Consult an advisor at the 4-year institution for prerequisite and application information. This curriculum prepares a student for transfer to the University of Langston's Bachelor of Nursing Program. University of Oklahoma College of Nursing requires 3 additional hours of general education to be earned at the upper-division level.

OU/TCC Collaborative Bachelor of Science in Nursing

Program Description:
The University of Oklahoma and TCC offer a Collaborative Bachelor of Science in Nursing (CBSN) degree. Students must meet all OU College of Nursing (OUCN) criteria and be admitted to the OU College of Nursing. Students in this program take their Level 3 OUCN nursing courses at TCC then transfer to OUCN-Tulsa for their final year of nursing. Students completing this program receive a Bachelor of Science in Nursing (BSN) from the University of Oklahoma.

Prerequisites:
Completion of Health Science-Pre Nursing A.S. Degree and admission to the University of Oklahoma College of Nursing. Contact OUCN-Tulsa for specific admission requirements.

Specialized Course Requirements Credit Hours: 30

Level 4 Nursing
Available at OUCN-Tulsa

Total Credits: 60 (30 completed at OUCN)

OU/TCC Collaborative Bachelor of Science in Nursing

Program Description:
The University of Oklahoma and TCC offer a Collaborative Bachelor of Science in Nursing (CBSN) degree. Students must meet all OU College of Nursing (OUCN) criteria and be admitted to the OU College of Nursing. Students in this program take their Level 3 OUCN nursing courses at TCC then transfer to OUCN-Tulsa for their final year of nursing. Students completing this program receive a Bachelor of Science in Nursing (BSN) from the University of Oklahoma.

Prerequisites:
Completion of Health Science-Pre Nursing A.S. Degree and admission to the University of Oklahoma College of Nursing. Contact OUCN-Tulsa for specific admission requirements.

Specialized Course Requirements Credit Hours: 30

Level 3 Nursing
Fall Semester
NURS 2765/OU N3025 Clinical Nursing I
NURS 2774/OU N3034 Human Experience in Health
NURS 2783/OU N3043 Health Assessment
NURS 2792/OU N3062 Introduction to Philosophy and Logic of Nursing

Spring Semester
NURS 2865/OU N3125 Clinical Nursing 2
NURS 2874/OU N3134 Human Experience in Acute & Chronic Illness I
NURS 2883/OU N3143 Human Focused Nursing
NURS 2892/OU N3162 Human Experience of Disability
NURS 2902/OU N3182 Pharmacology in Nursing

Level 4 Nursing
Available at OUCN-Tulsa

Total Credits: 60 (30 completed at OUCN)

GERIATIC TECHNICIAN

Program Description:
The Tulsa Community College Geriatric Technician Program is based on the proposed Oklahoma Certified Nurse Aide Career Ladder that provides an industry recognized professional development career path for certified nurse aides. The program provides collaborative learning experiences that develop advanced skills which will be utilized in the care of elderly clients in community-based long-term care facilities/agencies. The TCC Geriatric Technician Program consists of two options 1) the Geriatric Technician Certificate that offers six (6) hours of college credit in eight (8) weeks or 2) The Certified Nursing Assistant (CNA) Career Ladder with three distinctive levels, similar to the proposed Oklahoma Certified Nurse Aid Career Ladder model.

Option 1:
Geriatric Technician Certificate
Geriatric Technicians are employed in community-based long-term care settings. Their job responsibilities are performed...
under the delegation and supervision of licensed nurses. Their responsibilities fall between those of a Certified Nurse Assistant and a Licensed Practical Nurse.

Option 2:

CNA Career Ladder Certificate Option
The CNA Career Ladder Certificate Option offers a three (3) step progression in becoming a Geriatric Technician. Level 1 is based upon current Oklahoma nurse aide certification training and testing requirements regulated by the Oklahoma State Department of Health, Nurse Aide Registry. For those students who are already certified nursing assistants, the CNA Level 2 courses provides 2 hours of college credit with an additional 32 hours of skill development in core competencies applicable to certified nursing assistant working in a variety of community-based long term care settings. The Level 3 CNA program provides 4 hours of college credit with an additional 128 hours of advanced education with a specialization in geriatric and dementia care. Upon completion of the CNA Level 3 course, the graduate receives certification as a Geriatric Technician. NOTE: Students enrolling in the CNA Level 1 course must also be enrolled in the CNA Level 2 program. Students must complete all coursework within the Geriatric Technician and CNA Career Ladder programs with a grade of "C" or higher, which includes satisfactory demonstration of required skills.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Geriatric Technician Office: Metro (918) 595-7369
Counseling Center: Metro: (918) 595-7151

Procedure For Application:
1. Contact the Geriatric Technician Program Office, (918) 595-7369 for Geriatric Technician program application form and specific program information.
2. All prospective Geriatric Technician students must complete an application for enrollment to the College.
3. Submit completed program application form and required materials by the deadlines as identified in application materials. Submit materials to the Geriatric Technician Office located on the Metro Campus, Room MCS01G, 909 South Boston Ave., Tulsa, OK 74119.
4. Acceptance to Tulsa Community College does not guarantee admission into the Geriatric Technician Program.
5. Eligible applicants will be notified by mail regarding their selection status.
6. An orientation to the program, immunizations, current CPR certification and TB screening are required of students after their admission letter has been received and prior to the start of class.
7. In order to enroll in courses that include a clinical component and are a part of the program degree plan, students must receive clearance on a criminal background check, including sex offender registry.

Certificate Requirements Credit Hours: 6
Nursing 6 hours

Option 1:
NURS 1216 Geriatric Technician or

NURSING: Patient Care Technician

Program Description:
The Patient Care Technician (PCT) Program is approved by the Oklahoma Board of Nursing. Students who successfully complete the Patient Care Technician Program will be eligible to take the State Certification Exam offered by the Oklahoma Board of Nursing to practice as an Advanced Unlicensed Assistant (Patient Care Technician). Students must complete the PCT course with a grade of "C" or higher which includes satisfactory demonstration of required skills.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Patient Care Technician Office: Metro: (918) 595-7324
Counseling Center: Metro: (918) 595-7151

Patient Care Technician Certificate
Patient Care Technicians are employed in a variety of healthcare settings. Their job responsibilities are performed under the delegation and supervision of licensed nurses. Their job responsibilities fall between those of a Certified Nurse Assistant and a Licensed Practical Nurse.

Procedure For Application:
1. Contact the Patient Care Technician Program (918) 595-7324, for program application form and any specific program information.
2. All prospective Patient Care Technician students must complete an application for enrollment to the College.
3. Submit completed program application form and required materials by the deadlines as identified in application materials. Submit materials to the Patient Care Technician Office located on the Metro Campus, Room MCS01G, 909 South Boston Ave., Tulsa, OK 74119.
4. Acceptance to Tulsa Community College does not guarantee admission into the Patient Care Technician Program.
5. Eligible applicants will be notified by mail regarding their selection status.
6. An orientation to the program, immunizations, current CPR certification and TB screening are required of students after their admission letter has been received and prior to the start of class.
7. In order to enroll in courses that include a clinical component and are a part of the program plan, students must receive clearance on a criminal background check, including sex offender registry.

Certificate Requirements Credit Hours: 6
Nursing 6 hours
NURS 1206 Patient Care Technician

Total Credit Hours: 6
SURGICAL TECHNOLOGY

Program Description:
The Surgical Technology program option provides an opportunity for Certified Surgical Technologists who are graduates of an accredited educational program, to develop additional skills in mathematics, English, humanities, social and biological sciences and to earn an Associate in Applied Science degree. Surgical technologists are integral members of the surgical team who work closely with surgeons, anesthesiologists, registered nurses and other surgical personnel delivering patient care and assuming appropriate responsibilities before, during and after surgery. Students should consult with the Associate Dean of the Nursing Services Division for information and enrollment. Graduates of the Surgical Technology Program are qualified to take the national certifying exam given by: Liaison Council on Certification for the Surgical Technologist (LCCST), 7790 E. Arapahoe Rd., Suite 240, Englewood, CO 80112-1274, (303) 694-9264, (800) 707-0057.

Course Location: Surgical Technology courses will be taken either at Tulsa Technology Center Lemley Campus or Central Technology Center, Drumright Campus.

General Education courses will be offered by Tulsa Community College.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Nursing Services Division at Metro Campus:
(918) 595-7188
Tulsa Technology Center Career Services Center Department:
(918) 828-5200
Central Technology Center Student Services Office:
(918) 352-2551 Ext. 206
Students should consult with Tulsa Tech and Central Tech Admissions and Enrollment Staff before enrolling in this program.

Procedures For Application:
Tulsa Technology Center
1. Obtain an admission packet from Tulsa Technology Center. Packets are located at all Tulsa Tech campuses in the Adult Education office, counseling offices.
2. An admission test is required for full-time programs at Tulsa Tech (see admission packet for details)
3. Submit a completed program application form and required documents to the Career Services Center, Tulsa Technology Center, 3420 S. Memorial Dr., Tulsa OK, 74145. Please call (918) 828-5200 for application deadlines.
4. All prospective Surgical Technology program students must complete an application for enrollment to the college and submit their high school transcripts, GED scores, ACT/SAT scores, college transcripts and any previous training and or education to the Metro Campus Registration at 909 S. Boston, Tulsa OK, 74119. Incomplete submissions will not be considered for the associate in the applied science degree program.
5. Acceptance to TCC does not guarantee admission to the Surgical Technology Associate in Applied Science program.

HEALTH SCIENCE: NURSING

Procedures For Application:
Central Technology Center
1. Obtain an admission packet from Central Technology Center (CT). Packets are available in the CT Student Services Office, Drumright Campus, 3CT Circle, Drumright, OK 74030, (918) 352-2551, Ext. 206.
2. An admission test is required for entrance into this Central Technology Center class. (See admission packet for details) Applications are taken year round for programs beginning in mid-August (full-time day classes). Class size limited.
3. For start dates and further information, contact the Student Services Office, located on the CT Drumright Campus, 3CT Circle, Drumright, OK 74030, (918) 352-2551 Ext. 206

General Education Requirements Credit Hours: 31-32

Biology 7-8 hours
select 1 anatomy course and 1 microbiology course from the following:
- BIO 1314 Human Anatomy and Physiology
- *BIOL 2134 Human Anatomy
- *BIOL 1323 Basic Microbiology
- *BIOL 2164 Microbiology

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
ENGL 1083 Grammar and Mechanics of Writing
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Mathematics 3 hours
NURS 2403 Dosage Calculations for Nurses

Philosophy 3 hours
PHIL 2153 Medical Ethics

Psychology 3 hours
PSYC 1113 Introduction to Psychology

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 33

Surgical Technology 33 hours
- SRT 1102 Surgical Technology Orientation
- *SRGT 1112 Surgical Technology Introduction
- *SRGT 1124 Surgical Case Management
- *SRGT 1211 Medical Terminology
- *SRGT 1222 Microbiology and Wound Healing
- *SRGT 1324 Anatomy and Physiology
- *SRGT 1333 Aseptic Technique and Skills
- *SRGT 1341 Surgical Technology Clinical Practicum I
- *SRGT 2221 Surgical Pharmacology
HEALTH SCIENCE: PRE-PROFESSIONAL

*SRGT 2312 Surgical Patient Care and Skills
*SRGT 2323 Surgical Procedures I
*SRGT 2332 Surgical Technology Clinical Practicum II
*SRGT 2434 Surgical Procedures II
*SRGT 2442 Surgical Technology Clinical Practicum III

Total Credit Hours: 64-65
*Course has prerequisite (See course description section of catalog).
°Course must be completed with a "C" or above.

PRE-PROFESSIONAL HEALTH SCIENCES

PRE-PHARMACY
OU College of Pharmacy Transfer Option

Program Description:
This suggested curriculum includes TCC degree requirements and OU College of Pharmacy prerequisite courses generally completed in the first two years of a doctoral curriculum. This curriculum has been specifically designed to provide a seamless transition to the doctoral program at the University of Oklahoma College of Pharmacy. Students considering this major should consult the divisions listed below and/or Student Services at the OU College of Pharmacy, (Tulsa-Schusterman) and carefully select courses that will meet the prerequisite requirements of the doctoral program and course requirements for the Pre-Pharmacy associate degree program.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Divisions: Metro (918) 595-7334, Northeast (918) 595-7542, Southeast • (918) 595-7742, West (918) 595-8193
Counseling Centers: Metro (918) 595-7151 Northeast (918) 595-7527, Southeast (918) 595-7651, West (918) 595-8176
The University of Oklahoma College of Pharmacy Student Services: Tulsa-Schusterman, (918) 660-3570

General Education Requirements Credit Hours: 27
General Education requirements in mathematics (3-5 and Science (8) are met in specialized course requirements.

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 9 hours
Select one course from the following:
GEOG 2033 World Regional Geography
PHIL 1213/RELG 1213 Religions of the World: The Eastern Tradition
and select one course from of the following:
HUMN 2113 Humanities I
HUMN 2223 Humanities II

and select one course from the following:
Art 1113 Art Appreciation
MUSC 1113 Music Appreciation

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Social/Behavioral Sciences 3 hours (Required Elective)
select one course from the following:
PSYC 1113 Introduction to Psychology
SOCI 1113 Introduction to Sociology

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 62-66

Mathematics 9-10 hours
Select one of the following 2 groups
1) *MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry
*MATH 2114 Analytic Geometry and Calculus I
or
2) *MATH 1715 College Algebra and Trigonometry
*MATH 2114 Analytic Geometry and Calculus I

Science 47-48 hours
Biol 1224 Introduction to Biology for Majors
*Biol 1604 Zoology
*Biol 2134 Human Anatomy
*Biol 2154 Human Physiology
*Biol 2164 Microbiology
*Chem 1315 General Chemistry I
*Chem 1415 General Chemistry II
*Chem 2145 Organic Chemistry I
*Chem 2245 Organic Chemistry II
and select one course from the following:
*BioL/Chem 2364 Biochemistry
*Chem 2353 Introduction to Biochemistry
and select one course from the following:
*Phys 1114 General Physics I
*Phys 1214 General Physics II

Advanced Biology/Life Sciences
Additional prerequisite courses are required for students entering the University of Oklahoma's Pharmacy program for Fall 2008. Contact the Science and Mathematics Division or an academic advisor for details.

Controlled Electives 3 hours

Business 3 hours
select one course from the following:
ACCT 2213 Financial Accounting
ECON 2013 Principles of Macroeconomics
ECON 2023 Principles of Microeconomics

Recommended Electives Credit Hours: 0-6

Foreign Language 0-6 hours
Note: OU requires two semesters of college credit in a foreign language or completion of two years of the same foreign language in high school.
A foreign language is usually required for all doctoral programs.

Total Credit Hours: 92-102
*Course has prerequisites (See course description section of TCC catalog).
Students should be aware that any variation in this degree plan might result in credit hours that will not transfer to OU.
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
HEALTH SCIENCE: PRE-PROFESSIONAL

PRE-PROFESSIONAL SCIENCE RELATED FIELDS OF CONCENTRATION
Dentistry, Medicine and Optometry

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Divisions: Metro: (918) 595-7334
Northeast: (918) 595-7542, Southeast: (918) 595-7742,
West: (918) 595-8193
Counseling Centers: Metro: (918) 595-7151,
Northeast: (918) 595-7527, Southeast: (918) 595-7651,
West: (918) 595-8176

General Education Requirements Credit Hours: 21
See the General Education Requirements page for complete list. Science, Mathematics, and recommended elective requirements satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 42

Biology 16 hours
BIOL 1224 Introduction to Biology for Majors
and 12 hours from the following:
*BIOL 1404 General Botany
*BIOL 1604 Zoology
*BIOL 2134 Human Anatomy
*BIOL 2154 Human Physiology
*BIOL 2164 Microbiology

Chemistry 15 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II
*CHEM 2145 Organic Chemistry I
*CHEM 2245 Organic Chemistry II

Mathematics 3 hours
*MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry
*MATH 1715 College Algebra and Trigonometry
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III

Physics 8 hours
*PHYS 1114 General Physics I
and
*PHYS 1214 General Physics II
or
*PHYS 2034 Engineering Physics I
and
*PHYS 2124 Engineering Physics II

Total Credit Hours: 63
*Course has prerequisite (See course description section of catalog). Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum.

PRE-VETERINARY SCIENCE
OSU Transfer Option

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. This curriculum is designed for students desiring to transfer to OSU for completion of a baccalaureate degree in Pre-veterinary science followed by application for admission to the OSU College of Veterinary Medicine.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Divisions: West Campus: (918) 595-8193
Counseling Centers: Metro: West Campus: (918) 595-8176

General Education Requirements Credit Hours: 21
See general education requirements for complete list. Science, Mathematics and Recommended Electives requirements satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 39

Biology 12 hours
+BIOL 1224 Introduction to Biology for Majors
*BIOL 1604 Zoology
*BIOL 2164 Microbiology

Chemistry 10 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II

Mathematics 6 hours
*MATH 1513 College Algebra
and select one course from the following:
*MATH 2193 Elementary Statistics
*MATH 2523 Calculus for Business, Life and Social Sciences

Physics 8 hours
*PHYS 1114 General Physics I
*PHYS 1214 General Physics II

Speech 3 hours
*SPCH 1113 Speech Communication I

Total Credit Hours: 60
+BIOL 1224 is a prerequisite for BIOL 1604 and BIOL 2164. *Course has prerequisites (See course description section of TCC catalog). Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical education activity classes do not count toward the associate degree requirements in this curriculum.
**HEALTH SCIENCE: PRE-PROFESSIONAL**

**VETERINARY TECHNOLOGY**

**Program Description:**
Veterinary Technicians are essential members of the veterinary healthcare team. A Registered Veterinary Technician will support and augment the technical capabilities of many fields that involve animal care, including private veterinary practice, biomedical research, herd health management, teaching, zoological parks, and government services. Under the supervision of a licensed veterinarian, a technician may perform a variety of duties including: intensive nursing care, clinical laboratory procedures, radiology, anesthesiology, dentistry, and surgical assistance. A graduate will also have an in-depth understanding of the fundamentals of animal husbandry, management, and nursing care for a variety of species. The Veterinary Technology Program is accredited by the American Veterinary Medical Association (AVMA) and the Oklahoma State Board of Veterinary Medical Examiners (OSBVM).

**Degree Awarded:** Associate In Applied Science

**For More Information Contact:**
Veterinary Technology Program West Campus: (918) 595-8212
Science and Math Division: West Campus: (918) 595-8193
Counseling Center: West Campus: (918) 595-8176

The graduate will receive an Associate Degree in Applied Science and may be eligible to take national and state licensing examinations. After passing these examinations, the graduate may work under the direct supervision of a licensed veterinarian.

Individuals may not be eligible for a veterinary technician license in the state of Oklahoma who have:

- been addicted to narcotics or alcohol,
- received treatment for the habitual use of narcotics or alcohol;
- been convicted of a narcotics-related offense;
- ever been reprimanded, disciplined, disqualified or suspended from the duties of a veterinary technician or animal care;
- ever been a patient in a sanitarium or institution for the treatment of mental illness;
- been arrested/convicted of any felony offense, including a deferred sentence;

If any of these circumstances exist, it is advised that the prospective student discuss this with the Oklahoma State Board of Veterinary Medical Examiners (405) 524-9006.

Note: All applicants for licensure in the State of Oklahoma must undergo an OSBI (Oklahoma State Bureau of Investigation) background check during application for Examination and Licensure.

6. Eligible applicants will be notified and an interview will be scheduled.
7. All interviewed applicants will be notified by mail regarding their selection status.
8. Prerequisite work for the Veterinary Technology Program must be completed prior to admission. **This prerequisite is:**

**Biology 4 hours**

+^BIOL 1224 General Biology for Majors
*+^BIOL 1604 Zoology

**General Education Requirements Credit Hours: 23-25**

**Biology 4 hours**

+^BIOL 1224 Introduction to Biology for Majors
*+^BIOL 1604 Zoology

**Chemistry 4-5 hours**

*^CHEM 1114 Principles of Chemistry
*^CHEM 1315 General Chemistry I

**English 6 hours**

*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

**Mathematics 3-4 hours**

*^MATH 1473 Mathematics for Critical Thinking
*^MATH 1513 College Algebra
*^MATH 1454 Technical Mathematics

**Social Science 6 hours**

POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

**Specialized Course Requirements Credit Hours: 53**

**Veterinary Technology 53 hours**

-^VETT 1125 Anatomy and Physiology
-^VETT 1132 Introduction to Veterinary Technology
-^VETT 1183 Principles of Small Animal Care
-^VETT 1193 Principles of Large Animal Care
-^VETT 1223 Veterinary Hospital Technology I
*^VETT 1234 Clinical Pathology I
*^VETT 1263 Veterinary Office and Computer Skills
*^VETT 2126 Practicum: Animal Clinics and Nursing
*^VETT 2224 Microbiology and Sanitation
*^VETT 2234 Clinical Pathology II
*^VETT 2254 Laboratory, Wild and Exotic Animal Technology
*^VETT 2313 Veterinary Hospital Technology II
*^VETT 2333 Veterinary Pharmacology
*^VETT 2352 Radiology, Ultrasound and Diagnostic Imaging
*^VETT 2364 Large Animal Technology

**Total Credit Hours: 76-78**

* Course has prerequisite (See course description section of catalog).
+ Prerequisite to Veterinary Technology curriculum schedule (4 hours).
^ Course must be completed with a “C” or better.
- Admission to VETT program or permission of instructor.
Manufacturing Areas of Study

**AA:** Associate in Arts, university transfer degree • **AS:** Associate in Science, university transfer degree

**AAS:** Associate in Applied Science, workforce degree • **CER:** Certificate of Achievement

**University transfer degree programs** include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

**Workforce development degree and certificate programs** are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Manufacturing

Manufacturing Engineering Technology

Process Technology, AAS/CER

Quality Control, AS/AAS/CER
MANUFACTURING ENGINEERING TECHNOLOGY

Program Description:
Tulsa Community College’s Manufacturing Engineering Technology program provides the student with solid knowledge and skills in the area of applied engineering. Manufacturing Engineers create and implement the manufacturing build plan in order to take engineering designs from the drawing board to product delivery. The manufacturing build plan includes defining the requirements for facilities, equipment, special machinery, tooling, materials, manpower, and processes required to produce all of the detail parts and assemblies to make the final product. Manufacturing Engineering takes a leading role in the creation, maintenance, and improvement of the processes used in the production of every manufactured product in industry today.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Science, Math, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 20-22

English 6 hours
*ENGL 1113 Freshman Composition I

and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Mathematics 4-6 hours
*MATH 1454 Technical Mathematics

or
*MATH 1513 College Algebra

and
*MATH 1613 Plane Trigonometry

Physics 4 hours
*PHYS 1114 General Physics I

Social Science 6 hours
POL 1113 American Federal Government

and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 38

Computer Information Systems 3 hours
Select any three credit hours of Computer Information Systems (CSCI-CSYS) Courses

Drafting & Computer Aided Design Technology 3 hours
DRFT 1323 Engineering Design with CAD

Manufacturing Engineering Technology 23 hours
ENGR 1313 Manufacturing Processes
ENGR 1363 Metallurgy
*ENGR/QCTT 1443 Geometric Dimensioning and Tolerancing
ENGR 1463 Composite Materials
ENGR 2153 Lean, Six Sigma Quality Systems

*ENGR 2462 Project Engineering and Management
*ENGR 2543 Manufacturing Engineering I
*ENGR 2643 Manufacturing Engineering II

Quality Control Technology 9 hours
QCTT 1223 Blueprint Reading
QCTT 1313 Introduction to Quality Control
*QCTT 2333 Inspection Principles

Recommended Electives Credit Hours: 2-3

DRFT 2473 Tool Design
ENGR 1111 Introduction to Engineering
*ELET 1212 Introduction to Electricity
*ELET 1223 Hydraulics and Pneumatics
MGMT 1353 Management Essentials
NCMT 1212 Introduction to Machining

Total Credit Hours: 60-63

*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

PROCESS TECHNOLOGY

Program Description:
This program is designed to provide students with the concepts and skills needed to enter careers as Process Technicians in the petro-chemical industry.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center Northeast: (918) 595-7527

General Education Requirements Credit Hours: 34

Chemistry 8 hours
*CHEM 1114 Principles of Chemistry
*CHEM 2054 Process Organic Chemistry

English 6 hours
*ENGL 1113 Freshman Composition I

*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Economics 3 hours
ECON 2013 Principles of Macroeconomics

Mathematics 4 hours
*MATH 1454 Technical Mathematics

Physics 4 hours
*PHYS 1014 Conceptual Physics

Social Sciences 6 hours
POLS 1113 American Federal Government

and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Recommended Electives Credit Hours: 34

Computer Information Systems 3 hours
Select any three credit hours of Computer Information Systems (CSCI-CSYS) Courses

Drafting & Computer Aided Design Technology 3 hours
DRFT 1323 Engineering Design with CAD

Manufacturing Engineering Technology 23 hours
ENGR 1313 Manufacturing Processes
ENGR 1363 Metallurgy
*ENGR/QCTT 1443 Geometric Dimensioning and Tolerancing
ENGR 1463 Composite Materials
ENGR 2153 Lean, Six Sigma Quality Systems

*ENGR 2462 Project Engineering and Management
*ENGR 2543 Manufacturing Engineering I
*ENGR 2643 Manufacturing Engineering II

Quality Control Technology 9 hours
QCTT 1223 Blueprint Reading
QCTT 1313 Introduction to Quality Control
*QCTT 2333 Inspection Principles

Recommended Electives Credit Hours: 2-3

DRFT 2473 Tool Design
ENGR 1111 Introduction to Engineering
*ELET 1212 Introduction to Electricity
*ELET 1223 Hydraulics and Pneumatics
MGMT 1353 Management Essentials
NCMT 1212 Introduction to Machining

Total Credit Hours: 60-63

*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Specialized Course Requirements Credit Hours: 29

**Process Technology**
PRCT 1123 Introduction to Process Technology
PRCT 1133 Safety, Health & Work Practices
*PRCT 2024 Process Tech I (Equipment)
*PRCT 2034 Industrial Instrumentation
*PRCT 2134 Process Tech II (Systems)
*PRCT 2224 Process Tech III (Operations)
*PRCT 2243 Principles of Quality
*PRCT 2324 Process Troubleshooting

**Total Credit Hours: 63**
*Course has prerequisite (See course description section of catalog).

**PROCESS TECHNOLOGY Certificate Option**

**Program Description:**
This program is designed to provide students with the concepts and skills needed to enter careers as Process Technicians in the petro-chemical industry.

**Degree Awarded: Certificate of Achievement**

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

Certificate Requirements Credit Hours: 48

**Chemistry 8 hours**
*CHEM 1114 Principles of Chemistry
*CHEM 2054 Process Organic Chemistry

**Computer Information Systems 3 hours**
CSCI 1203 Computer Concepts and Applications

**Mathematics 4 hours**
*MATH 1454 Technical Mathematics

**Physics 4 hours**
*MATH 1454 Technical Mathematics

Specialized Course Requirements Credit Hours: 29

**Process Technology 29 hours**
PRCT 1123 Introduction to Process Technology
PRCT 1133 Safety, Health & Work Practices
PRCT 2024 Process Tech I (Equipment)
PRCT 2034 Industrial Instrumentation
*PRCT 2134 Process Tech II (Systems)
*PRCT 2224 Process Tech III (Operations)
PRCT 2243 Principles of Quality
*PRCT 2324 Process Troubleshooting

**Total Credit Hours: 48**
*Course has prerequisite (See course description section of catalog).

QUALITY CONTROL TECHNOLOGY NSU Transfer Option

**Program Description:**
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year Industrial Operations Management curriculum. Students should consult the Northeastern State University catalog and carefully select courses that will meet requirements for both the baccalaureate and associate degree options.

**Degree Awarded: Associate in Science**

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

**General Education Requirements Credit Hours: 34**

**English 6 hours**
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

**Geography 3 hours**
GEO 1043 Introduction to Cultural Geography

**Humanities 6 hours**
HUMN 2113 Humanities I
and select one 3-hour course from the humanities list on the General Education Requirements page.

**Mathematics 3 hours**
*MATH 1513 College Algebra

**Science 7 hours**
See General Education Requirements for the complete list.

**Social Science 6 hours**
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

**Speech 3 hours**
SPCH 1113 Speech Communication I

**Specialized Course Requirements Credit Hours: 30**

**Computer Information Systems 3 hours**
Select any three credit hours of Computer Information Systems (CSCI/CSYS) courses.

**Engineering 9 hours**
ENGR 1313 Manufacturing Processes
ENGR 1363 Metallurgy
ENGR 1463 Composite Materials

**Management 3 hours**
*MGMT 1353 Management Essentials

**Quality Control Technology 15 hours**
*QCTT 1223 Blueprint Reading
QCTT 1313 Introduction to Quality Control
*QCTT 1443 Geometric Dimensioning and Tolerancing
*QCTT 2333 Inspection Principles
*QCTT 2343 Statistical Process Control
MANUFACTURING

Total Credit Hours: 64
*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

QUALITY CONTROL TECHNOLOGY

Program Description:
This program is designed to prepare the student with no previous experience in quality control for an entry level position as a quality control professional. Students having previous quality control experience will be able to upgrade their skills and knowledge in order to qualify for advancement in their chosen field. This program will help the graduate prepare to sit for the examination to become a Certified Quality Control Technician administered through the American Society for Quality, P.O. Box 3005, Milwaukee, WI 53201-3005, 1-800-248-1946.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 19-20

English 6 hours
*ENGL 1113 Freshman Composition I
and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Mathematics 3-4 hours
*MATH 1454 Technical Mathematics
*MATH 1513 College Algebra

Physics 4 hours
*PHYS 1114 General Physics I

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 39

Computer Information Systems 3 hours
Select any three credit hours of Computer Information Systems (CSCI-CSYS) Courses

Engineering 9 hours
ENGR 1313 Manufacturing Processes
ENGR 1363 Metallurgy
ENGR 1463 Composite Materials

Quality Control Technology 27 hours
*QCTT 1223 Blueprint Reading
QCTT 1313 Introduction to Quality Control
*QCTT 1443 Geometric Dimensioning and Tolerancing
QCTT 2153 Lean, Six Sigma Quality Systems
*QCTT 2333 Inspection Principles
QCTT 2413 ISO 9000/2000

Recommended Elective Credit Hours: 3-4
ENGR 2462 Project Engineering and Management
ENGR 2543 Manufacturing Engineering I
MGMT 1353 Management Essentials
NCMT 1212 Introduction to Machining

Total Credit Hours: 61-63
*Course has prerequisite (See course description section of catalog).

QUALITY CONTROL TECHNOLOGY

General Option Certificate

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Quality Control Technology, General option, may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

Certificate Requirements Credit Hours: 33-34

Computer Information Systems 3 hours
Select any three credit hours of Computer Information Systems (CSCI-CSYS) Courses

English 3 hours
*ENGL 1113 Freshman Composition I

Management 3 hours
MGMT 1353 Management Essentials

Mathematics 3-4 hours
*MATH 1454 Technical Mathematics
*MATH 1513 College Algebra

Quality Control Technology 21 hours
*QCTT 1223 Blueprint Reading
QCTT 1313 Introduction to Quality Control
*QCTT 1443 Geometric Dimensioning and Tolerancing
*QCTT 2333 Inspection Principles
*QCTT 2363 Quality Standards and Specifications
*QCTT 2373 Quality Costs, Surveys and Audits
QCTT 2413 ISO 9000/2000

Total Credit Hours: 33-34
*Course has prerequisite (See course description section of catalog).
Science, Technology, Engineering & Mathematics Area of Study

**AA: Associate in Arts, university transfer degree • AS: Associate in Science, university transfer degree**

**AAS: Associate in Applied Science, workforce degree • CER: Certificate of Achievement**

University transfer degree programs include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Workforce development degree and certificate programs are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

### Science

- Biology, AS
- Biotechnology, AS/AAS/CER
- Chemistry, AS
- Environmental Science & Natural Resources, AS
- Geography, AS
- Geographic Information Systems, CER
- Geology, AS
- Horticulture, OSU option, AS
- Horticulture Technology:
  - General Horticulture, AAS/CER
  - Golf and Sports Turf, AAS/CER
  - Greenhouse and Nursery Production, AAS/CER
  - Grow Your Own, CER
- Floral Design and Interiorscape, AAS/CER
- Landscape Design and Construction, AAS/CER
- Landscape Maintenance, AAS/CER
- Interior Plant Care Specialist, CER
- Landscape Specialist, CER
- Physics, AS

(Veterinary Technology, AAS see Health Sciences areas of study)

### Technology

- Electronics Engineering Technology OSU, AS
- Electronics Technology NSU, AS
- Civil Engineering/Surveying Technology, AAS/CER
- CVET/SURV, Construction, AAS/.CER
- Drafting & Design Engineering, AAS
- Drafting and Computer Aided Design, CER
- Electronics Technology, AAS/CER
  - Electronics Technology, Alternative Energy, AAS/CER
  - Electronics Technology, Biomedical Equipment Technology, AAS/CER
  - Electronics Technology, Electromechanical Manufacturing Technology, AAS/CER
  - Electronics Technology, Nanotechnology, AAS
  - Electronics Technology US Navy option, AAS
- Nanotechnology, CER

(Technology, AAS see Business area of study)

### Engineering

- Engineering, AS
  - Engineering, Computer Engineering OSU, AS,
  - Electrical OSU, AS
  - Engineering, Mechanical Engineering OSU, AS

### Mathematics

- Mathematics, AS
BIOLOGY

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Majoring in the biological sciences is a likely choice for the student who is curious about life, creative, highly motivated, and interested in solving biological problems. Biologists are involved in agriculture, forestry, wildlife management, environmental science and other fields that make the world a healthier and safer place to live. The biological sciences will also prepare the student for entry into one of a variety of technical fields in Allied Health. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Divisions: Metro: (918) 595-7334, Northeast: (918) 595-7542, Southeast: (918) 595-7742, West: (918) 595-8193
Counseling Centers: Metro: (918) 595-7151, Northeast (918) 595-7527, Southeast: (918) 595-7651, West (918) 595-8176

General Education Requirements Credit Hours: 27
See the General Education Requirements list for complete list. Science and Mathematics requirements satisfied in Specialized Course Requirements section.

Specialized Course Requirements Credit Hours: 34

Biology 16 hours
BIOL 1224 Introduction to Biology for Majors
*BIOL 1404 General Botany
*BIOL 1604 Zoology
*BIOL 2134 Human Anatomy
*BIOL 2154 Human Physiology
*BIOL 2164 Microbiology

Chemistry 15 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II
*CHEM 2145 Organic Chemistry I
*CHEM 2245 Organic Chemistry II

Mathematics 3 hours
*MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry
*MATH 1715 College Algebra and Trigonometry
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III

Recommended Electives Credit Hours: 0-3
CSCI 1203 Computer Concepts and Applications
*MATH 2193 Elementary Statistics
PSYC 1113 Introduction to Psychology

Total Credit Hours: 60-64
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum.

BIOTECHNOLOGY

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students will be educated in the fundamentals of biology, chemistry and biochemistry with heavy emphasis on a wide range of laboratory procedures. The topics of lab safety, protein isolation and separation techniques, cell culture, molecular biology and recombinant DNA, and quality control will be addressed as they apply to both a manufacturing and research environment. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Division, Southeast Campus (918) 595-7742
Counseling Centers: Metro (918) 595-7151, Northeast (918) 595-7527, Southeast (918) 595-7651, West (918) 595-8176

Contact the Science and Mathematics Division or see an advisor for recommended course sequence.

General Education Requirements Credit Hours: 24
Science and recommended general education elective requirements are satisfied in the Specialized Course Requirements section for this degree.

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Humanities 6 hours
See General Education Requirement page for complete list. PHIL 2153 Medical Ethics recommended.

Mathematics 3 hours
*MATH 1513 College Algebra

Recommended Electives 3 hours
Select one 3-hour course from one of the following:
Psychology, Social Sciences, Foreign Language, or Fine Arts. (Art, Music, Theatre)
BIOTECHNOLOGY

Program Description:
This program is designed for students who wish to acquire the skills necessary to work in the field of biotechnology. Students will be educated in the fundamentals of biology, chemistry, and biochemistry with heavy emphasis on a wide range of laboratory procedures. The topics of lab safety, protein isolation and separation techniques, cell culture, molecular biology and recombinant DNA will be included. The topics of technical writing, medical ethics and quality control will be addressed as they apply to both a manufacturing and research environment.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Science and Mathematics Division:
Southeast Campus (918) 595-7742
Counseling Centers: Metro (918) 595-7151, Northeast (918) 595-7527, Southeast (918) 595-7651, West (918) 595-8176

Contact the Science and Mathematics Division or see an advisor for recommended course sequence.

General Education Requirements Credit Hours: 21

English 6 hours
ENGL 1113 Freshman Composition I
*ENGL 2333 Technical/Professional Writing

Total Credit Hours: 43

Biology 4 hours
*BIOL 2164 Microbiology

Biotechnology 24 hours
BIOT 1113 Introduction to Biotechnology
*BIOT 1315 Biotechnology Laboratory Methods & Techniques
*BIOT 1534 Cell Culture Techniques
*BIOT 2246 Molecular Biology
*BIOT 2335 Proteomics and Instrumentation
*BIOT 2101 Biotechnology Quality Assurance

Chemistry 15 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II
*CHEM 2145 Organic Chemistry I

Additional Recommended Courses
*ENGL 2333 Technical Professional Writing
*MATH 2193 Elementary Statistics
*CHEM 2353 Introduction to Biochemistry
*CHEM 2245 Organic Chemistry II

Total Credit Hours: 67

*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. See page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
Certificate Requirements Credit Hours: 26

Biotechnology 26 hours
BIOT 1113 Introduction to Biotechnology
*BIOT 1315 Biotechnology Laboratory Methods and Techniques
*BIOT 1534 Cell Culture Techniques
*BIOT 2246 Molecular Biology and Techniques
*BIOT 2335 Proteomics and Instrumentation
*BIOT 2101 Biotechnology Quality Assurance
*BIOT 2512 Biotechnology Apprenticeship

Total Credit Hours: 26
*Course has prerequisite (See course description section of catalog)

CHEMISTRY

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Since chemistry deals with the composition, structure and interactions of matter, the study of chemistry is basic to all sciences. This degree prepares the student to enter the allied health and other medical fields such as nursing, pre-med, and medical laboratory technology. This degree also prepares the student to enter programs in aerospace, agriculture, biology, engineering, environmental science, and petroleum engineering. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Division: Metro: (918) 595-7334, Northeast: (918) 595-7542, Southeast: (918) 595-7742, West: (918) 595-8193
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651, West: (918) 595-8176

General Education Requirements Credit Hours: 27
See the General Education Requirements for complete list. Science and mathematics requirements satisfied in Specialized Course Requirements Section.

Specialized Course Requirements Credit Hours: 34-37

Chemistry 20 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II
*CHEM 2145 Organic Chemistry I
*CHEM 2245 Organic Chemistry II

Mathematics 5-9 hours
*MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry
*MATH 1715 College Algebra and Trigonometry
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III

Physics 8 hours
*PHYS 1114 General Physics I
*PHYS 1214 General Physics II
*PHYS 2034 Engineering Physics I
*PHYS 2124 Engineering Physics II

Total Credit Hours: 60-64
*Course has prerequisite (See course description section of catalog).

ENVIRONMENTAL SCIENCE & NATURAL RESOURCES
OSU option

Program Description:
This curriculum includes TCC degree requirements and courses general completed in the first two years of a four-year curriculum. This curriculum is designed for students desiring to transfer to OSU-Stillwater for completion of a baccalaureate degree in Agricultural Science and Natural Resources with a major in either Environmental Science or Natural Resource Ecology and Management. This degree is designed for students interested in pursuing a career in agriculture, conservation, environmental science, or natural resource management (such as forestry, range or wildlife sciences).

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Division
Metro: (918) 595-7334   West (918) 595-8193
Counseling Centers
Metro: (918) 595-7151 West: (918) 595-8176

General Education Requirements Credit Hours: 35
Additional hours of General Education recommended elective requirements satisfied in Specialized Course Requirements.

Biology 8 hours
BIOL 1224 Introduction to Biology for Majors
and select one course from the following
*BIOL 1604 Zoology
*BIOL 1404 General Botany

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 2123 Freshman Composition II

Humanities 6 hours
See the General Education Requirements for complete list.
^TCC_OSU Dual admitted students may take PHIL 3413 (course offered through OSU)

Mathematics 3 hours
*MATH 1513 College Algebra

^TCC_OSU Dual admitted students may take PHIL 3413 (course offered through OSU)
Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Controlled Electives 6 hours
ECON 2013 Principles of Macroeconomics
SPCH 1113 Speech Communications I

Specialized Course Requirements Credit Hours: 26-28

Chemistry 10 hours
*CHEM 1315 Chemistry I
*CHEM 1415 Chemistry II

Mathematics 6 hours
*MATH 1613 Plane Trigonometry
*MATH 2193 Elementary Statistics

Earth Science 4 hours
Select one of the following:
GEOL 1014 General Physical Geology
*PHSC 1114 General Physical Science

Select one of the following options:

Environmental Science Option 6-8 hours
select 6-8 credit hours from the following
SOCI 1113 Introduction to Sociology
BIOL 2123 Human Ecology
*MATH 2114 Analytical Geometry and Calculus I
or
*MATH 2523 Calculus for Business, Life, and Social Sciences
*PHYS 1114 General Physics I
*PHYS 1214 General Physics II

Natural Resources Option 6-8 hours
select 6-8 credit hours from the following
*BIOIL 1404 General Botany
*BIOIL 1604 Zoology
GEOG/GIS 2344 Introduction to Geographic Information Systems
GIS 2373 GIS Data Acquisition and Management
*GIS 2383 Advanced Geographic Information Systems

Total Credit Hours: 61-63

*Course has prerequisites (See course description section of catalog).
^dual admitted students taking PHIL 3413 to satisfy humanities requirement may transfer 63 credit hours to OSU.
Student should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible.
To receive an A.A. or A.S. degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Geography is the scientific study of Earth's surface and its immediate atmosphere. Geographers study the political, economic, social and environmental qualities of places and how these attributes interact. A geography graduate will possess the flexibility to pursue a career in urban and regional planning, international affairs, community development, location analysis in both the public and private sector, resource planning and management, cartography and teaching. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Division Metro: (918) 595-7334, Liberal Arts Division Southeast: (918) 595-7780
Counseling Centers Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7651, West: (918) 595-8176

General Education Requirements** Credit Hours: 30
See the General Education Requirements for the complete list. Science requirements satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 18-19

Geography 10 hours
+GEOG 1014 Geography (Physical)
GEOG 1023 World Geography (Economic)
GEOG 1043 Introduction to Cultural Geography

GEOG 2033 World Regional Geography
GEOG 2013 Meteorology
GEOG 2113 Introduction to Oceanography
GEOG 2153 Human Ecology

Geology 8-9 hours
GEOL 1014 General Geology (Physical)
GEOL 1024 General Geology (Historical)
GEOL 2021 Map and Airphoto Interpretations

Recommended Electives Credit Hours: 12
*Biol 1404 General Botany
*Biol 1604 Zoology
*Chem 1315 General Chemistry I
*Chem 1415 General Chemistry II
*GEOG/GIS/SURV 2344 Introduction to Geographic Information Systems
GEOG 2354 Computer Cartography
*GIS 2373 GIS Data Acquisition and Management
*GIS 2383 Advanced Geographic Information Systems
*GIS 2393 Geographic Information Systems Practicum
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III
Soc 2123 Introduction to Cultural Anthropology

Total Credit Hours: 60-61
*Course has prerequisite (See course description section of catalog).
**Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. +This course is required as part of the 10 hour program requirement.

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
**GEOGRAPHIC INFORMATION SYSTEMS**

**Program Description:**
This certificate is designed for individuals whose objective is to become qualified for employment as a Geographic Information Systems Technician. The certificate will also serve to enable students to pursue education in GIS supplemental to any major they have chosen. In addition, the certificate will provide additional training and education to individuals currently working in a GIS career.

**Degree Awarded:** Certificate of Achievement

**Certificate Credit Hours:** 17

**Geography/Geographic Information Systems 17 hours**
- GIS/GEOG 2344 - Introduction to Geographic Information Systems
- GEOG 2354 Computer Cartography
- *GIS 2373 GIS Data Acquisition and Management
- *GIS 2383 Advanced Geographic Information Systems
- *GIS 2393 Geographical Information Systems Practicum

**Total Credit Hours:** 17
*Course has prerequisite (See course description section of catalog).

**GEOLOGY**

**Program Description:**
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Geology is the scientific study of the earth. This endeavor includes Earth's composition, history, surface processes and internal workings. A degree in geology will provide the graduate the skills to discover, recognize and use the earth's natural resources to promote the quality of human life. Because the geologist will be aware of the events that continually shape the earth's surface, the geology graduate will provide to society the knowledge to enable all of us to occupy this planet's physical environment more safely. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

**Degree Awarded:** Associate in Science

**For More Information Contact:**
- Science and Mathematics Division: Metro: (918) 595-7334
- Counseling Center: Metro: (918) 595-7151

**General Education Requirements** Credit Hours: 27-29

See the General Education Requirements for the complete list.

**NOTE:** Students must complete a total of 60 hours to graduate. Science and Mathematics requirements satisfied in Specialized Course Requirements.

**Specialized Course Requirements Credit Hours:** 31

**Chemistry 10 hours**
- *CHEM 1315 General Chemistry I
- *CHEM 1415 General Chemistry II

**Geology 8-9 hours**
- GEOL 1014 General Geology (Physical)
- GEOL 1024 General Geology (Historical)
- *GEOL 2021 Map and Airphoto Interpretation

**Mathematics 5-6 hours**
- *MATH 1513 College Algebra
- *CHEM 1415 General Chemistry II

**Physics 8 hours**
- *PHYS 1114 General Physics I and
- *PHYS 1214 General Physics II

**Total Credit Hours:** 60
*Course has prerequisite (See course description section of catalog).
**Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. To receive a A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

**HORTICULTURE TECHNOLOGY PROGRAMS**

**OSU Transfer Option**

**Program Description:**
Horticulture Technology is for students who want to make an enduring difference in the environment by working with plants. Opportunities abound in landscape architecture, public horticulture, turf management and numerous related fields. Students may use their associate degree as the first two years of a baccalaureate degree at Oklahoma State University - Stillwater.

**Degree Awarded:** Associate in Science

**For More Information Contact:**
- Green Country Horticulture Center Northeast: (918) 595-8435
- Counseling Center Northeast: (918) 595-7527

**General Education Requirements Credit Hours:** 45

**Biology 8 hours**
- *BIOL 1224 Introduction to Biology for Majors
- *BIOL 1404 General Botany

**Chemistry 10 hours**
- *CHEM 1315 General Chemistry I
- *CHEM 1415 General Chemistry II

**Biotechnology 5 hours**
- *BIOL 2234 Principles of Molecular Biology
- *CHEM 2221 Physical Chemistry

**Total Credit Hours:** 60
*Course has prerequisite (See course description section of catalog).
**Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. To receive a A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
**Horticulture Technology**

**Program Description:**
This multi-option program is designed to develop the necessary skills for graduates to function in such jobs as foreman, groundskeeper, horticulture technician, interiorscaper, floral designer, landscaper, management trainee, sales person with greenhouses, garden centers, landscaping operation, parks, and private industry.

**Options:**
- General Horticulture Option
- Golf and Sports Turf Option
- Greenhouse and Nursery Production Option
- Floral Design and Interiorscape Option
- Landscape Design and Construction Option
- Landscape Maintenance Option

**Degree Awarded:** Associate in Applied Science

**General Education Requirements Credit Hours:** 19

**Biology 4 hours**
*BIOL 1404 General Botany

**Computer Information Systems 3 hours**
CSCI 1203 Computer Concepts and Applications

**English 6 hours**
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

**Humanities 6 hours**
See the General Education Requirements page for complete list

**Mathematics 3 hours**
*MATH 1513 College Algebra

**Psychology 3 hours**
PSYC 1113 Introduction to Psychology

**Social Science 6 hours**
POLS 1113 American Federal Government
and select one course from the following:
- HIST 1483 U.S. History 1492 to Civil War Era
- HIST 1493 U.S. History Civil War Era to Present

**Speech 3 hours**
SPCH 1113 Speech Communication I

**Specialized Course Requirements Credit Hours:** 18

**Horticulture 18 hours**
HORT 1303 Principles of Horticulture Technology
*HORT 1313 Ornamental Horticulture
*HORT 1343 Plant Identification
HORT 2353 Lawn and Turf Care
HORT 2413 Nursery and Greenhouse Management
HORT 2483 Interior Plants

**Total Credit Hours:** 63
*Course has prerequisite (See course description section of catalog).
To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

**Horticulture Technology Options Credit Hours:** 12-16
Depending on Option Selected. Students must complete courses in at least one option.

**General Horticulture Option 12 hours**
HORT 1413 Equipment Safety and Maintenance
HORT 2353 Lawn and Turf Care
*HORT 2363 Landscape Planning and Design I
HORT 2413 Nursery and Greenhouse Management

**Golf and Sports Turf Option 13 hours**
HORT 1413 Equipment Safety and Maintenance
HORT 2224 Golf and Sports Turf
HORT 2353 Lawn and Turf Care
*HORT 2363 Landscape Planning and Design I

**Greenhouse and Nursery Production Option 15 hours**
HORT 1413 Equipment Safety and Maintenance
HORT 2413 Nursery and Greenhouse Management
HORT 2433 Floral Design
HORT 2483 Interior Plants
HORT 2493 Horticulture Management Principles

**Floral Design and Interiorscape Option 15 hours**
*HORT 2363 Landscape Planning and Design I
HORT 2413 Nursery and Greenhouse Management
HORT 2433 Floral Design
HORT 2483 Interior Plants
HORT 2493 Horticulture Management Principles

**Landscape Design and Construction Option 13 hours**
HORT 1091 Landscape Construction
HORT 1413 Equipment Safety and Maintenance
*HORT 2353 Lawn and Turf Care
*HORT 2363 Landscape Planning and Design I
*HORT 2513 Landscape Planning and Design II
*SURV 1324 Surveying I

Landscape Maintenance Option 12 hours
HORT 1413 Equipment Safety and Maintenance
*HORT 2353 Lawn and Turf Care
*HORT 2363 Landscape Planning and Design I
HORT 2423 Arboriculture Practices

Controlled Electives Credit Hours: 6
Select any Horticulture Classes not applied to major.

Total Credit Hours: 60-64
*Course has a prerequisite (See course description section of catalog).

HORTICULTURE TECHNOLOGY
Certificate Program

Program Description:
This curriculum serves as an overview of Horticulture. Designed primarily to allow individuals to master most home horticulture challenges.

Degree Awarded: Certificate of Achievement

Certification Requirements Credit Hours: 33

Biology 4 hours
*BIOL 1404 General Botany

Horticulture Technology 23 hours
HORT 1233 Introduction to Irrigation
HORT 1303 Principles of Horticulture
*HORT 1313 Ornamental Horticulture
*HORT 1343 Plant Identification
*HORT 1353 Fertilizers and Soils
*HORT 1363 Plant Diseases and Pests
HORT 2251 Horticulture Internship I Project
HORT 2401 Pest Control Certification and Licensing
*HORT 2493 Horticulture Management Principles

Courses Required for Specific Options 6 hours
(See Associate Degree, Specialized Course Requirements)

Total Credit Hours: 33
*Course has a prerequisite (See course description section of catalog).

HORTICULTURE TECHNOLOGY
Applied Horticulture Certificate
Interior Plant Care Specialist Option

Program Description:
This program is designed to develop the necessary skills for graduates to function as an assistant to an Interior Plant Technician.

Certification Requirements Credit Hours: 10

Computer Information Systems 2 hours
CSCI 1011 Introduction to Microcomputers
*CSCI 1161 Introduction to Internet

Horticulture Technology 8 hours
HORT 1031 Therapeutic Horticulture
HORT 1041 Bonsai
HORT 1081 Small Greenhouses
HORT 1221 Principles of Floral Arranging
HORT 1241 Cacti and Kin/Orchids and Others
HORT 1261 Tropical Plant Care
HORT 2251 Horticulture Internship I Project
HORT 2401 Pest Control Certification and Licensing

Total Credit Hours: 10
*Course has a prerequisite (See course description section of catalog).

HORTICULTURE TECHNOLOGY
Grow Your Own

Program Description:
A sustainable approach to growing your own food.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Science and Mathematics Division: Metro: (918) 595-7334
Counseling Center: Metro: (918) 595-7151

Certification Requirements Credit Hours: 4

Horticulture Technology 4 hours
HORT 1141 Basic Plant Science
HORT 1151 Grown Your Own Vegetables
HORT 1171 Sell Your Own Produce
HORT 1181 Build or Buy Your Own

Total Credit Hours: 4
PHYSICS

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Physics is the foundation for all science areas such as Astronomy, Biology, Chemistry, and Geology. Physics is also the foundation for medicine-related studies and aviation. Students considering this major should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science and Mathematics Divisions: Metro: (918) 595-7334, Northeast: (918) 595-7542, Southeast: (918) 595-7742, West: (918) 595-8193
Counseling Centers: Metro: (918) 595-7151, Northeast: (918) 595-7527, Southeast: (918) 595-7742, West: (918) 595-8193

General Education Requirements Credit Hours: 27
See the General Education Requirements page for complete list.

Science and mathematics requirements are satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 26

Chemistry 10 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II

Mathematics 8 hours
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II

Physics 8 hours
*PHYS 2034 Engineering Physics I
*PHYS 2124 Engineering Physics II

Recommended Electives Credit Hours: 7
CSCI 1203 Computer Concepts and Applications
*ENGR 1242 Introductory Engineering Computer Programming
*MATH 2134 Analytic Geometry and Calculus III
*MATH 2613 Elementary Differential Equations

Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog). Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.

CIVIL ENGINEERING / SURVEYING TECHNOLOGY

Program Description:
Civil Engineering / Surveying Technology graduates work for a variety of employers, including consulting firms, government agencies, construction, and utility companies. The program provides a broad based knowledge of construction, civil engineering technology and surveying fundamentals. The major study areas include computer aided drafting and design, construction materials, physics, mathematics, ethics, land law, equipment and calculations used in surveying, hydrology and hydraulics. Graduates of the program may become licensed as a Land Surveying Intern after passing the Fundamentals of Land Surveying examination administered by the Oklahoma State Board of Registration for Professional Engineers and Land Surveyors. After gaining qualified experience, a Land Surveying Intern may apply to take the Principals of and Practices of Land Surveying exam. After successfully completing this second exam, a Land Surveying Intern will become registered as a Professional Licensed Surveyor. Additionally, graduates may apply for the examination to become a Certified Engineering Technician given by the National Institute for the Certification of Engineering Technicians.

Degree Awarded: Associate in Applied Science

For More Information Contact:
Science, Mathematics, and Engineering Technology Division: Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 24-25

Computer Science 3 hours
CSCI 1203 Computer Concepts and Applications

English 6 hours
*ENGL 1113 Freshman Composition I
select any 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing
*ENGL 2343 Business Communications

Mathematics 5-6 hours
MATH 1715 College Algebra and Trigonometry
or the following two courses:
*MATH 1513 College Algebra
*MATH 1613 Plane Trigonometry

Physics 4 hours
*PHYS 1114 General Physics I

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 40

VETERINARY TECHNOLOGY, AAS
See Health Sciences are of Study: Other Health Sciences
Civil Engineering Technology 15 hours
*CVET 1373 Materials of Construction
*CVET 1383 Construction Plans, Specifications and Contract Documents
*CVET 1393 Basic Hydrology
*CVET 2373 Physical Properties of Soil
*CVET 2443 Basic Hydraulics

Drafting and Design Engineering Technology: 6 hours
DRFT 1323 Engineering Drawing I
*DRFT 1363 Civil Drafting and Design

Surveying Technology 19 hours
*SURV 1324 Surveying I
*SURV 2262 Professional ENGR/SURV Ethics
*SURV 2334 Surveying II
SURV 2363 Land Law I
*SURV 2373 Land Law II
*SURV 2393 Survey Exam Topics

Total Credit Hours: 64-65
*Course has prerequisite (See course description section of catalog)
**SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS: TECHNOLOGY**

**Surveying Technology** 10 hours  
*SURV 1324 Surveying I  
SURV 2262 Professional ENGR/SURV Ethics  
*SURV 2334 Surveying II

**Construction Technology** 15 hours  
CSTR 2103 Introduction to Construction Management  
*CSTR 2123 Construction Drawings and CAD  
*CSTR 2163 Construction Cost Estimating  
*CSTR 2183 Construction Codes and Practices  
*CSTR 2213 Construction Planning and Scheduling

**Total Credit Hours: 61-62**  
*Course has prerequisite (See course description section of catalog)

### DRAFTING AND DESIGN ENGINEERING TECHNOLOGY

**Program Description:**  
The American Design Drafting Association has fully certified this program to the level of design drafter. It provides the student with a general education in mathematics, physics, English, engineering drawing, and design as well as specific training in Computer Aided Design Drafting (CADD). Those completing the associate degree program will be prepared for exciting careers in the fields of mechanical, structural, electrical, or other graphics communication technologies. Upon completion of this program, the graduate may apply for the ADDA National Examination for certification.

**Degree Awarded:** Associate in Applied Science

**For More Information Contact:**  
Science, Mathematics, and Engineering Technology Division:  
Northeast: (918) 595-7542  
Counseling Center Northeast: (918) 595-7527

**General Education Requirements Credit Hours: 20-22**

**English 6 hours**  
*ENGL 1113 Freshman Composition I  
and select one course from the following:  
*ENGL 1213 Freshman Composition II  
*ENGL 2333 Technical/Professional Writing

**Mathematics 4-6 hours**  
*MATH 1454 Technical Mathematics  
or the following two courses:  
*MATH 1513 College Algebra  
*MATH 1613 Plane Trigonometry

**Physics 4 hours**  
*PHYS 1114 General Physics I

**Social Science 6 hours**  
POLS 1113 American Federal Government  
and select one course from the following:  
HIST 1483 U.S. History 1492 to Civil War Era  
HIST 1493 U.S. History Civil War Era to Present

**Specialized Course Requirements Credit Hours: 40**

**Computer Information Systems 3 hours**  
*CSYS 2073 MS Office

**Drafting and Computer Aided Design Technology 20 hours**  
DRFT 1323 Engineering Drawing I  
*DRFT 1442 Descriptive Geometry  
*DRFT 2203 AutoCad 2  
*DRFT 2223 Mechanical Design I (CAD)  
DRFT 2293 Survey of CAD Applications  
and select 6 credit hours from the following:  
*DRFT 2023 Pro/Engineer Modeling  
*DRFT 2033 Pro/Engineer Manufacturing  
DRFT 2233 Autodesk Inventor  
*DRFT 2393 Basic Solid Works

**Electronics 2 hours**  
*ELET 1212 Introduction to Electricity

**Engineering 6 hours**  
ENGR 1313 Manufacturing Process  
*ENGR 1443 Geometric Dimensioning and Tolerancing

**Quality Control 3 hours**  
*QCTT 1223 Blueprint Reading

**Speech 3 hours**  
SPCH 2103 Interpersonal Communication

**Controlled Electives Credit Hours: 3**  
*CSCI 1203 Computer Concepts and Applications  
*DRFT 1363 Civil Drafting and Design  
*DRFT 2203 AutoCad 2  
*DRFT 2233 Autodesk Inventor  
QCTT 1313 Introduction to Quality Control

**Total Credit Hours: 60-62**  
*Course has prerequisite (See course description section of catalog)

### DRAFTING AND DESIGN ENGINEERING TECHNOLOGY  
Drafting and Computer Aided Design Certificate

**Program Description:**  
The Certificate of Achievement in Drafting and Computer Aided Design Technology is designed to recognize the accomplishment of students who have completed the technical coursework required for the Associate of Applied Science degree in Design Engineering Technology, but not the General Education requirements. This certificate is a logical goal for students seeking the technical skill level of the Associate Degree, but whose circumstances impose a more limited time frame than the Degree requires. It also provides documentation of exposure to both basic Drafting and more advanced Design theory and practice.

**Degree Awarded:** Certificate of Achievement

**Specialized Course Requirements Credit Hours: 16-18**

**Drafting and Computer Aided Design Technology 6 hours**  
DRFT 1323 Engineering Drawing I  
*DRFT 2203 AutoCad 2
Engineering 3 hours
*ENGR 1443 Geometric Dimensioning and Tolerancing

Mathematics 4-6 hours
MATH 1454 Technical Mathematics
or the following two courses:
* MATH 1513 College Algebra
* MATH 1613 Plane Trigonometry

Quality Control 3 hours
* QCTT 1223 Blueprint Reading

Controlled Electives Credit Hours: 6-8
* DRFT 1363 Civil Drafting and Design
* DRFT 2023 Pro/Engineer Modeling
* DRFT 2033 Pro/Engineer Manufacturing
DRFT 2042 CATIA Fundamentals
* DRFT 2223 Mechanical Design I (CAD)
DRFT 2233 Autodesk Inventor
* DRFT 2243 Mechanical Design II (CAD)
DRFT 2393 Basic Solid Works
* ENGR 1132 Engineering Design with Computer-Aided Design

Total Credit Hours: 22-26
*Course has prerequisite (See course description section of catalog)

### For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

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**ELECTRONICS ENGINEERING TECHNOLOGY**
OSU Transfer Option 063
See Science, Technology, Engineering and Mathematics area of study: Engineering.

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### ELECTRONICS TECHNOLOGY PROGRAMS

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

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### ELECTRONICS TECHNOLOGY
NSU Transfer Option

**Program Description:**
This suggested curriculum includes TCC degree requirements and courses in the first two years of a four year Bachelor of Science in Technology. Students should consult the Northeastern State University catalog and carefully select courses that meet requirements for both baccalaureate and associate degree programs.

**Degree Awarded:** Associate in Science

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### For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

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### General Education Requirements Credit Hours: 34

**English 6 hours**
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

**Geography 3 hours**
GEOG 1043 Introduction to Cultural Geography

**Humanities 6 hours**
See the General Education Requirements page for complete list.

**Mathematics 6 hours**
* MATH 1513 College Algebra
* MATH 1613 Plane Trigonometry

**Science 4 hours**
* PHYS 1114 General Physics

**Social Science 6 hours**
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

**Speech 3 hours**
SPCH 1113 Speech Communication I

### Specialized Course Requirements Credit Hours: 33

**Apprenticeship 3 hours**
APPR 1203 Apprenticeship

**Computer Information Systems 3 hours**
Select any 3 hours of CSCI/CSYS courses.

**Electronics 27 hours**
* ELET 1212 Introduction to Electricity
* ELET 1303 DC Circuit Analysis
* ELET 1313 AC Circuit Analysis
* ELET 1503 Programmable Controls
* ELET 2215 Digital Circuits
* ELET 2244 Amplifiers I
* ELET 2525 Wireless Communications
* ELET 2622 Electronic Design

**Total Credit Hours: 67**
*Course has prerequisite (See course description section of catalog).

**This 3 credit hour apprenticeship will be awarded to those students who have successfully completed the equivalent of 3 credit hours of Computer Science, Electronics or Telecommunications from a Career Technology Center. (Students planning to transfer to pursue a bachelor's degree should contact Northeast Campus Counseling Center staff to select courses that will transfer.)

To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

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### COMPUTER LABS ON EVERY CAMPUS

Each Campus has a variety of computer labs with staff that provide free assistance to students.
**ELECTRONICS TECHNOLOGY**

**Program Description:**
This program prepares the student with the necessary knowledge and skills to gain employment as an engineering technician, field service technician, research and development technician, or production technician in the field of electronics and be able to advance to positions of increasing responsibility. This program will help the graduate prepare to take the examination to become a Certified Engineering Technician given by the Institute for Certification of Engineering Technicians.

**Degree Awarded:** Associate in Applied Science

**General Education Requirements Credit Hours: 20-22**

**English 6 hours**
*ENGL 1113 Freshman Composition I
and select one course from the following:  
*ENGL 1213 Freshman Composition II
**ENGL 2333 Technical/Professional Writing

**Mathematics 4-6 hours**
*MATH 1454 Technical Mathematics
or the following two courses:  
***MATH 1513 College Algebra
***MATH 1613 Plane Trigonometry

**Science 4 hours**
Select one course from the following:
*PHYS 1114 General Physics
*PHSC 1114 General Physical Science

**Social Science 6 hours**
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

**Specialized Course Requirements Credit Hours: 40**

**Computer Information Systems 3 hours**
CSCI 1203 Computer Concepts and Applications

**Drafting and Design Engineering Technology 3 hours**
DRFT 1323 Engineering Drawing with CAD

**Electronics Technology 28 hours**
*ELET 1212 Introduction to Electricity
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 1503 Programmable Control
*ELET 2215 Digital Circuits
*ELET 2244 Amplifiers I
*ELET 2333 Amplifiers II
*ELET 2525 Wireless Communications

**Controlled Electives Credit Hours: 6**
*ELET 1223 Hydraulics and Pneumatics
*ELET 2514 Microprocessors
*ELET 2533 Automation Control
ELET 2622 Electronic Design

*ELET/ALTE 1442 Introduction to Alternative Energy
*ELET 2632 Introduction to Nanotechnology
NCMT 1212 Introduction to Machining

**Total Credit Hours: 60-62**
*Course has prerequisite (See course description section of the catalog).
**It is highly recommended that students select this course as part of their English requirements.
***Recommended for students who plan to transfer to a four-year program.

**ELECTRONICS TECHNOLOGY Certificate**

**Program Description:**
This program prepares the student with the necessary knowledge and skills to gain employment as an engineering technician, field service technician, research and development technician, or production technician in the field of electronics and be able to advance to positions of increasing responsibility. This program will help the graduate prepare to take the examination to become a Certified Engineering Technician given by the Institute for Certification of Engineering Technicians.

**Degree Awarded:** Certificate of Achievement

**Certificate Requirements Credit Hours: 21**

**Electronics Technology 17 hours**
*ELET 1212 Introduction to Electricity
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 2215 Digital Circuits
*ELET 2244 Amplifiers I

**Mathematics 4 hours**
*MATH 1454 Technical Mathematics

**Total Credit Hours: 21**
*Course has prerequisite (See course description section of the catalog).

**ELECTRONICS TECHNOLOGY Alternative Energy Option**

**Program Description:**
This multi-functional program is designed for students interested in working with alternative/renewable energy. Oklahoma is ranked 8th in the United States for wind mill utility operation and is growing with the reduced cost of manufacturing solar cells. The student will measure and analyze both wind and solar power systems. This program will also study Biofuels and Hydrogen power conversion systems.

**Degree Awarded:** Associate in Applied Science

**General Education Requirements Credit Hours: 20-22**

**English 6 hours**
*ENGL 1113 Freshman Composition I
and select one course from the following:  
*ENGL 1213 Freshman Composition II
**ENGL 2333 Technical/Professional Writing

**Mathematics 4 hours**
*MATH 1454 Technical Mathematics

**Social Science 6 hours**
POLS 1113 American Federal Government

**Electronics Technology 28 hours**
*ELET 1212 Introduction to Electricity
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 1503 Programmable Control
*ELET 2215 Digital Circuits
*ELET 2244 Amplifiers I
*ELET 2333 Amplifiers II
*ELET 2525 Wireless Communications

**Controlled Electives Credit Hours: 6**
*ELET 1223 Hydraulics and Pneumatics
*ELET 2514 Microprocessors
*ELET 2533 Automation Control
ELET 2622 Electronic Design

*ELET/ALTE 1442 Introduction to Alternative Energy
*ELET 2632 Introduction to Nanotechnology
NCMT 1212 Introduction to Machining

**Total Credit Hours: 60-62**
*Course has prerequisite (See course description section of the catalog).
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS: TECHNOLOGY

and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Mathematics 4-6 hours
* MATH 1454 Technical Mathematics
or the following two courses:
* MATH 1513 College Algebra
* MATH 1613 Plane Trigonometry

Science 4 hours
Select one course from the following:
* PHYS 1114 General Physics
* PHSC 1114 General Physical Science

Specialized Course Requirements Credit Hours: 41

Computer Information Systems. 3 hours
CSCI 1203 Computer Concepts and Applications

Drafting and Design 3 hours
DRFT 1323 Engineering Drawing with CAD

Alternative Energy 13 hours
ALTE/ELET 1223 Hydraulics and Pneumatics
* ALTE/ELET 1442 Introduction to Alternative Energy
ALTE 1453 Solar Energy Systems
ALTE 1463 Wind Energy Systems
ALTE 1472 Renewable Design Project

Electronics 14 hours
* ELET 1212 Introduction to Electricity
* ELET 1303 DC Circuits
* ELET 1313 AC Circuits
* ELET 1503 Programmable Control
* ELET 2533 Automation Control

Engineering 6 hours
ENGR 1363 Metallurgy
ENGR 1463 Composite Materials

Numerical Control 2 hours
NCMT 1212 Introduction to Machining

Total Credit Hours: 61-63
* Course has prerequisite. (See course description section of catalog).

ELECTRONICS TECHNOLOGY
Biomedical Equipment Technology Option

Program Description:
This program prepares the student with the necessary knowledge and skills to gain employment as a biomedical equipment technician. The biomedical equipment technician is qualified for positions in medical research and development, operation calibration, and maintenance of medical equipment for hospitals, equipment suppliers, and manufacturers. Upon completion of the program, the graduate may apply for the certification test given by the board of examiners for the International Certification Commission for the Certified Biomedical Equipment Technician (CBET).

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 20-22

English 6 hours
* ENGL 1113 Freshman Composition I
and select one course from the following:
* ENGL 1213 Freshman Composition II
* ENGL 2333 Technical/Professional Writing

Mathematics 4-6 hours
* MATH 1454 Technical Mathematics
or the following two courses:
** MATH 1513 College Algebra
** MATH 1613 Plane Trigonometry

ELECTRONICS TECHNOLOGY
Alternative Energy Certificate Option

Program Description:
This short program is designed for those interested in working with alternative/renewable energy or wanting a better understanding of the different energy production fields. Oklahoma is ranked 8th (2007) in the US for windmill utility operation. Solar has long been a part in alternative energy production and is growing with the reduced cost of manufacturing solar cells. The student will measure and analyze both wind and solar power systems. This program also studies Biofuels and Hydrogen power conversion systems.

Degree Awarded: Certificate of Achievement

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast (918) 595-7542
Counseling Center: Northeast (918) 595-7527

Certificate Requirements Credit Hours: 20
Mathematics 4 hours
* MATH 1454 Technical Mathematics

Alternative Energy 11 hours
ALTE/ELET 1223 Hydraulics and Pneumatics
* ALTE/ELET 1442 Introduction to Alternative Energy
ALTE 1453 Solar Energy Systems
ALTE 1463 Wind Energy Systems

Electronics 5 hours
* ELET 1212 Introduction to Electricity
* ELET 1503 Programmable Control

Total Credit Hours 20
* Course has prerequisite. (See course description section of catalog).
Science Technology, Engineering & Mathematics: Technology

Science 4 hours
Select one course from the following:
*PHYS 1114 General Physics I
*PHSC 1114 General Physical Science

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 45

Biomedical Equipment 15 hours
*BMET 1304 Introduction to Biomedical Electronics
*BMET 2343 Biomedical Electronics Theory I
*BMET 2353 Biomedical Electronics Theory II
*BMET 2382 Contemporary Issues in Biomedical Electronics

Electronics Technology 17 hours
*ELET 1212 Introduction to Electricity
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 2215 Digital Circuits
*ELET 2244 Amplifiers I

Total Credit Hours: 31-33
*Course has prerequisite (See course description section of catalog). ***It is highly recommended that students select this course as part of this program.

ELECTRONICS TECHNOLOGY

Electro-Mechanical Manufacturing Option

Program Description:
This multi functional program is designed for students to gain a successful career in many of Tulsa's manufacturing jobs. Automation is the lead technology used to control processes in manufacturing circles. Students will receive training in electronics, fluid power, PLCs, and motor control systems that applies to industry needs. Energy and composite material will be introduced with laboratory experiences. This program is also designed to provide upgrade training to those already employed in a manufacturing environment.

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 20-22

English 6 hours
*ENGL 1113 Freshman Composition I
and select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Mathematics 4-6 hours
*MATH 1454 Technical Mathematics
or the following two courses:
***MATH 1513 College Algebra
***MATH 1613 Plane Trigonometry

Science 4 hours
Select one course from the following:
*PHYS 1114 General Physics I
*PHSC 1114 General Physical Science

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 27

Biomedical Equipment 10 hours
*BMET 1304 Introduction to Biomedical Electronics
*BMET 2343 Biomedical Electronics Theory I
*BMET 2353 Biomedical Electronics Theory II

Electronics Technology 19 hours
*ELET 1212 Introduction to Electricity
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 1313 AC Circuit Analysis
ELECTRONICS TECHNOLOGY

Nanotechnology Option

Program Description:
This program prepares the student with a background in the growing field of nanotechnology. Nanotechnology is currently in the forefront of all other new technologies because nano and micro substances are a large part of electrical, chemical, and biological science. This option will help the graduate to obtain employment in the nano sciences or as a field service technician, engineering and research technician or systems electronic technician.

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 28-31

Biology 4 hours
BIOL 1114 General Biology for Non-Majors
BIOL 1224 Introduction to Biology for Majors

Chemistry 4-5 hours
*CHEM 1114 Principles of Chemistry
*CHEM 1315 General Chemistry I

English 6 hours
*ENGL 1113 Freshman Composition I
and select 3 credit hours from the following:
*ENGL 1213 Freshman Composition II
**ENGL 2333 Technical / Professional Writing

Mathematics 4-6 hours
*MATH 1454 Technical Mathematics
or the following two courses:
***MATH 1513 College Algebra
***MATH 1613 Plane Trigonometry

Science 4 hours
Select one course from the following:
*PHYS 1114 General Physics
*PHSC 1114 General Physical Science

Social Science 6 hours
POLS 1113 American Federal Government
and select one of the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Specialized Course Requirements Credit Hours: 36

Computer Information System 3 hours
CSCI 1203 Computer Concepts and Applications

Biomedical Equipment Technology 4 hours
BMET 1304 Introduction to Biomedical Electronics

Electronics Technology 22 hours
*ELET 1212 Introduction to Electricity
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 2215 Digital Circuits
*ELET 2244 Amplifiers I
*ELET 2525 Wireless Communications

Nanotechnology 8 hours
*NANT/ELET 2632 Introduction to Nanotechnology
*NANT/ELET 2643 Nanoelectronics
*NANT/ELET 2653 Nanoscience

Total Credit Hours 65-68
*Course has prerequisite (See course description section of catalog).
**This 3 credit hour block of classes will be awarded to those students who have successfully completed the equivalent of 3 credit hours related coursework from a career technology center, industry training or 3 credit hours of Science and Engineering classes at TCC.
***It is highly recommended that students select this course as part of this program.

ELECTRONIC TECHNOLOGY

Nanotechnology Certificate Option

Program Description:
This program certificate is designed to prepare the engineering technologist student with a background in Nanotechnology. The study of Nanotechnology includes chemistry, electronics, bio science, plastics, and micro mechanical machines. It is recommended that the additional math and science courses be completed before starting this course work.

Degree Awarded: Certificate of Achievement

General Education Requirements Credit Hours: 7-9

Chemistry 4-5 hours
select one course from the following:
*CHEM 1114 Principles of Chemistry
*CHEM 1315 General Chemistry I

Mathematics 3-4 hours
select one course from the following:
*MATH 1454 Technical Mathematics
***MATH 1513 College Algebra

Specialized Course Requirements Credit Hours: 10

Electronics Technology 2 hours
*ELET 1212 Introduction to Electricity

Nanotechnology/Electronics 8 hours
NANT/ENGR 1463 Composite Materials
*NANT/ELET 2632 Introduction to Nanotechnology
and select one course from the following:
ELECTRONICS TECHNOLOGY

U.S. Navy Technology Option

Program Description:
Successful completion of both blocks of the college coursework: 1) preliminary studies, including general education requirements and specific technical courses at the participating state system institutions, and 2) the successful completion of all USN technical training programs curricula and job experience (college credit recommended by the American Council of Education [ACE] guidelines) is required before the student is eligible to receive an appropriate AAS degree.

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
select one course from the following:
*ENGL 1213 Freshman Composition II
*ENGL 2333 Technical/Professional Writing

Social Science 6 hours
POL 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Mathematics 3 hours
*MATH 1513 College Algebra

General Education Electives 3 hours
Choose any 3 hours of General Education.

Specialized Course Requirements **Credit Hours: 30

Navy Technical Training Schools (ACE Credit) 30 hours

Controlled Electives: Credit Hours: 12
Electives must be chosen in relation to the student’s occupational/educational goal and approved by the instructor to enter the program.

***Total Credit Hours: 60
*Course has prerequisite (See course description section of catalog).
**Students with less than 30 hours ACE credit should contact counseling or testing for other options.
***Minimum of 15 credit hours must be completed through the degree granting institution.

ELECTRONICS ENGINEERING TECHNOLOGY

OSU Transfer Option

Program Description:
This suggested curriculum includes TCC degree requirements and courses generally completed in the first two years of a four-year Bachelor of Science in Electronics Engineering Technology curriculum. Students should consult the Oklahoma State University catalog and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs.

Degree Awarded: Associate in Science

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 42

Chemistry 5 hours
*CHEM 1315 General Chemistry I

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Humanities 6 hours
See the General Education Requirements page for complete list

Mathematics 8 hours
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II

Physics 8 hours
*PHYS 1114 General Physics I
*PHYS 1214 General Physics II

Social Science 6 hours
POL 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Required Electives 3 hours
SPCH 1113 Speech Communication

Specialized Course Requirements Credit Hours: 24

Computer Information Systems 4 hours
*CSCI 1901 UNIX
*CSCI 2473 C Language

Electronics Technology 20 hours
*ELET 1303 DC Circuit Analysis
*ELET 1313 AC Circuit Analysis
*ELET 1212 Introduction to Electricity
*ELET 2215 Digital Circuits
*ELET 2244 Amplifiers I
*ELET 2333 Amplifiers II

Total Credit Hours: 66
*Course has prerequisite (See course description section of catalog). To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements. Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS: ENGINEERING

ENGINEERING

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Engineering may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Science

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 21
See the General Education Requirements for the complete list, including the 3 hours of required electives from the following: Psychology, Social Sciences, Foreign Languages, Fine Arts (Art, Music, Theatre). Science, Mathematics, and elective requirements satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 45
Chemistry 5 hours
*CHEM 1315 General Chemistry I

Engineering 17 hours
*ENGR 1132 Engineering Design with Computer Aided Design
*ENGR 2103 Engineering Statics
*ENGR 2143 Engineering Strength of Materials
*ENGR 2213 Thermodynamics
*ENGR 2523 Elementary Dynamics
*ENGR 2613 Introduction to Electrical Science

Mathematics 15 hours
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III
*MATH 2613 Elementary Differential Equations

Physics 8 hours
*PHYS 2034 Engineering Physics I
*PHYS 2124 Engineering Physics II

Recommended Electives Credit Hours: 1-5
+*CHEM 1415 General Chemistry II
CSCI 1203 Computer Concepts and Applications
**ENGR 1111 Introduction to Engineering
**ENGR 1242 Introductory Engineering Computer Programming

Total Credit Hours: 67-71
Course has prerequisite (See course description section of catalog).
Recommended for all engineering majors.
Recommended for students wishing to complete a BS degree in chemical or environmental engineering.
Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. Courses needed to remedy any necessary deficiency in mathematics may, in some cases, meet general education requirements. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

ENGINEERING

Computer Engineering
OSU Transfer Option

Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Electrical and Computer Engineering may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Science

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 21
See the General Education Requirements for the complete list, including the 3 hours of required electives from the following: Psychology, Social Sciences, Foreign Languages, Fine Arts (Art, Music, Theatre). Science, Mathematics, and elective requirements satisfied in Specialized Course Requirements.

Specialized Course Requirements Credit Hours: 46
Chemistry 10 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II

Engineering 6 hours
ENGR 1111 Introduction to Engineering
*ENGR 1132 Engineering Design with Computer Aided Design
*ENGR 2613 Introduction to Electrical Science

Mathematics 15 hours
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III
*MATH 2613 Elementary Differential Equations

Physics 8 hours
*PHYS 2034 Engineering Physics I
*PHYS 2124 Engineering Physics II

Computer Information Systems 7 hours
*CSCI 1901 Beginning UNIX (LINUX)
*CSCI 2473 C Language
*CSCI 2843 C++ Programming Language

Total Credit Hours: 67
Course has prerequisite (See course description section of catalog). Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. Courses needed to remedy any necessary deficiency in mathematics may, in some cases, meet general education requirements. To receive an A.A or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
Program Description:
Students who are interested in pursuing a course of study leading to a baccalaureate degree in Electrical and Computer Engineering may complete the freshman and sophomore general education and prerequisite courses at TCC. Students should visit a TCC counseling office in order to consult the transfer catalogs of the universities where the four-year degree is offered and design a program of study and select courses that meet requirements for both the TCC associate degree and the baccalaureate degree at the university of their choice.

Degree Awarded: Associate in Science.

For More Information Contact:
Science, Mathematics, and Engineering Technology Division:
Northeast: (918) 595-7542
Counseling Center: Northeast: (918) 595-7527

General Education Requirements Credit Hours: 21
See the General Education Requirements for the complete list, including the 3 hours of required electives from the following: Psychology, Social Sciences, Foreign Languages, Fine Arts (Art, Music, Theatre). Science, Mathematics, and elective requirements satisfied in Specialized Course Requirements

Specialized Course Requirements Credit Hours: 48
Chemistry 10 hours
*CHEM 1315 General Chemistry I
*CHEM 1415 General Chemistry II

Physics 8 hours
*MATH 2114 Analytic Geometry and Calculus I
*MATH 2124 Analytic Geometry and Calculus II
*MATH 2134 Analytic Geometry and Calculus III
*MATH 2613 Elementary Differential Equations

Total Credit Hours: 69
*Course has prerequisite (See course description section of catalog). Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. Courses needed to remedy any necessary deficiency in mathematics may, in some cases, meet general education requirements. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.
Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
**MATH 2613 Elementary Differential Equations**

**MATH 2134 Analytic Geometry and Calculus III**

**MATH 2124 Analytic Geometry and Calculus II**

**MATH 2114 Analytic Geometry and Calculus I**

**ENGR 2613 Introduction to Electrical Science**

**ENGR 2523 Elementary Dynamics**

**ENGR 2213 Thermodynamics**

**ENGR 2143 Engineering Strength of Materials**

**ENGR 2103 Engineering Statics**

**ENGR 1242 Introductory Engineering Computer Programming**

**ENGR 1132 Engineering Design with Computer Aided Design**

**ENGR 1111 Introduction to Engineering**

**ENGR 2132 Engineering Design with Computer Aided Design**

**ENGR 2124 Introductory Engineering Computer Programming**

**ENGR 2103 Engineering Statics**

**ENGR 2143 Engineering Strength of Materials**

**ENGR 2213 Thermodynamics**

**ENGR 2523 Elementary Dynamics**

**ENGR 2613 Introduction to Electrical Science**

**Mathematics 15 hours**

*CHEM 1315 General Chemistry I*

**Chemistry 5 hours**

**Specialized Course Requirements Credit Hours: 48**

**Recommended Electives Credit Hours: 9**

**Total Credit Hours: 61**

*Course has prerequisite (See course description section of catalog).**

**Recommended for all engineering majors.**

Students should select hours from the recommended field of concentration and/or recommended electives to satisfy general education requirements where possible. Courses needed to remedy any necessary deficiency in mathematics may, in some cases, meet general education requirements. To receive an A.A. or A.S. Degree, students must demonstrate computer proficiency. Please see page 22 for complete requirements.

Physical Education activity classes do not count toward the associate degree requirements in this curriculum at TCC.
SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS
Transportation, Distribution & Logistics Area of Study

AA: Associate in Arts, university transfer degree • AS: Associate in Science, university transfer degree
AAS: Associate in Applied Science, workforce degree • CER: Certificate of Achievement

University transfer degree programs include TCC degree requirements and courses generally completed in the first two years of a four-year curriculum. Students should consult the catalog of the college or university to which they are planning to transfer and carefully select courses that will meet requirements for both the baccalaureate and associate degree programs. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Workforce development degree and certificate programs are specifically designed to prepare students for direct entry into the workforce. They may advance students within their current career or open doors to new career opportunities. Traditionally these programs were not designed for transfer; however, varying amounts of coursework - and in some cases entire degrees - may now apply towards a degree at a four-year institution; the number of applicable transfer hours will vary from one university to another. Check with an advisor for further information. Final decisions regarding the transferability of courses are made by the school to which the student plans to transfer.

Aviation Sciences Technology options:
- Aviation Maintenance Technology, OSU Transfer AAS
- Air Traffic Control, AAS
- Avionics, OSU Transfer AAS
- Flight Simulation Specialist Technician, AAS
- Management, OSU Transfer AAS
- Professional Pilot, OSU Transfer

For more information on Aviation Science Programs:
Science, Math, and Engineering Technology Division,
Northeast: (918) 595-7542
Counseling Center, Northeast: (918) 595-7527

TTC Riverside Campus
801 E. 91st St.
Tulsa, OK 74132
Counseling Center Riverside: (918) 828-4041
TRANSPORTATION, DISTRIBUTION & LOGISTICS

AVIATION MAINTENANCE TECHNOLOGY

Program Description:
This option provides an opportunity for Federal Aviation Administration Airframe and Powerplants Certified Technicians to develop skills in mathematics, physics, humanities and social sciences and to earn an Associate in Applied Science Degree. This option was developed by a joint effort of Tulsa Technology Center, Tulsa Community College, and Oklahoma State University.

Students should consult with the Tulsa Community College aviation counselor at the Tulsa Technology Center Riverside Campus before enrolling in this option.

Degree Awarded: Associate in Applied Science

General Education Requirements Credit Hours: 35

Economics 3 hours
*ECON 2023 Principles of Microeconomics

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 1213 Freshman Composition II

Geography 3 hours
GEOG 1043 Introduction to Cultural Geography

Mathematics 6 hours
*MATH 1513 College Algebra
*MATH 2193 Elementary Statistics

Sciences 8 hours
ASTR 1104 General Astronomy
*PHYS 1114 General Physics I
*CHEM 1114 Principles of Chemistry
BIOL 1114 General Biology for Non-Majors

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Speech 3 hours
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 33

Aviation Sciences Technology 39 hour
**AVST 1209 Aviation Maintenance
**AVST 1239 Airframe
**AVST 1259 Powerplant
AVST 2113 History of Aviation

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications

Total Credit Hours: 68

*Course has prerequisite (See course description section of catalog).
**Students who have graduated from an FAA approved Aviation Maintenance Technology Program and have a valid FAA license may apply for advanced standing credit in these courses. Application must be made in the Counseling and Testing Center at the Northeast Campus.

NOTE - Specialized Course Requirements. These courses should be taken at Tulsa Technology Center or any other educational institution which offers FAA approved programs.

NOTE - It is recommended that students take MGT 2103 Workforce Development Internship during the last semester before graduation to enhance employability.

AVIATION SCIENCES TECHNOLOGY

Air Traffic Control

Program Description:
This program option provides training in the application of terminal tower and radar approach control procedures. The program is designed to offer students aviation subjects related to air traffic control. Upon successful completion of the program students are prepared to apply for entry to the Federal Aviation Administration Air Traffic Control Academy. The curriculum is provided through use of high-fidelity control tower simulation and radar approach simulation in state-of-the-art facilities to meet the changing needs of air traffic control industry. Students should consult with the TCC aviation counselor at the TCC Riverside Campus before enrolling in this option.

Degree Awarded: Associate in Applied Science

General Education Requirements - Credit Hours: 18

English 6 hours
*ENGL 1113 Freshman Composition I
*ENGL 2333 Technical/Professional Writing

Mathematics 3 hours
*MATH 1513 College Algebra

Social Science 6 hours
POLS 1113 American Federal Government
and select one course from the following:
HIST 1483 U.S. History 1492 to Civil War Era
HIST 1493 U.S. History Civil War Era to Present

Psychology/Speech 3 hours
PSYC 1113 Introduction to Psychology
SPCH 1113 Speech Communication I

Specialized Course Requirements Credit Hours: 42

Aviation Sciences Technology 39 hour
AVST 1113 Private Pilot Ground School
AVST 1222 Private Pilot Flight Lab
*AVST 1343 Introduction to Air Traffic Control
*AVST 1354 Air Traffic Control Tower Operation I
*AVST 1364 Air Traffic Control Radar Operation I
AVST 2213 Instrument Pilot Ground School
*AVST 2226 Air Traffic Control Tower Operation II
*AVST 2236 Air Traffic Control Radar Operation II
*AVST 2245 Air Traffic Control Advanced Tower and Radar Operations
*AVST 2253 Air Traffic Control Meteorology

Computer Information Systems 3 hours
CSCI 1203 Computer Concepts and Applications

Controlled Electives: 3
*AVST 2263 Air Traffic Control ATC Internship
or 3 credit hours of general education electives
**Total Credit Hours: 63**

*Course has prerequisite (See course description section of catalog).

**Students who have graduated from an FAA approved Aviation Maintenance Technology Program and have a valid FAA license may apply for advanced standing credit in these courses. Application must be made in the Counseling and Testing Center at the Northeast Campus.

### AVIATION SCIENCES TECHNOLOGY

#### Avionics - OSU Transfer Option

**Program Description:**
This option provides an opportunity for graduates of the Tulsa Technology Center Avionics program or individuals with documented equivalent training to develop skills in mathematics, physics, humanities and social sciences and to earn an Associate in Applied Science Degree. This option was developed by a joint effort of Tulsa Technology Center, Tulsa Community College, and Oklahoma State University. Students should consult with the Tulsa Community College aviation counselor at the Tulsa Technology Center Riverside Campus before enrolling in this option.

**Degree Awarded:** Associate in Applied Science

#### General Education Requirements - Credit Hours: 41

- **Economics 3 hours**
  *ECON 2023 Principles of Microeconomics

- **English 6 hours**
  *ENGL 1113 Freshman Composition I
  *ENGL 1213 Freshman Composition II

- **Geography 3 hours**
  GEOG 1043 Introduction to Cultural Geography

- **Humanities 6 hours**
  HUMN 2113 Humanities I
  HUMN 2223 Humanities II
  PHIL 1113 Introduction to Philosophy
  PHIL 1143 Introduction to Business Ethics: Business Issues

- **Mathematics 6 hours**
  *MATH 1513 College Algebra
  *MATH 1613 Plane Trigonometry

- **Sciences 8 hours**
  ASTR 1104 General Astronomy
  BIOL 1114 General Biology for Non-Majors
  *CHEM 1114 Principles of Chemistry
  *PHYS 1114 General Physics I

- **Social Science 6 hours**
  POLS 1113 American Federal Government
  and select one course from the following:
  HIST 1483 U.S. History 1492 to Civil War Era
  HIST 1493 U.S. History Civil War Era to Present

- **Speech 3 hours**
  SPCH 1113 Speech Communication I

**Specialized Course Requirements Credit Hours: 31**

- **Aviation Sciences Technology 31 hours**
  **+**AVST 1007 Avionics I
  **+**AVST 1017 Avionics II
  **+**AVST 1027 Avionics III
  **+**AVST 1037 Avionics IV
  AVST 2113 History of Aviation

**Total Credit Hours: 72**

*Course has prerequisite (See course description section of catalog).

+Course must be taken through Tulsa Technology Center – Riverside Campus.

**NOTE** - Specialized Course Requirements. These courses should be taken at Tulsa Technology Center or any other educational institution which offers FCC approved programs.

**NOTE** - It is recommended that students take MGT 2103 Workforce Development Internship during the last semester before graduation to enhance employability.
## AVIATION SCIENCES TECHNOLOGY

### Flight Simulation Specialist

**Program Description:**
This program is intended to develop the basic skills and experience needed to function as a Simulation Test Engineer at FlightSafety International. It is designed to prepare the student with knowledge in physics, aviation, electronics, digital computers, hydraulics and other skills necessary to assemble, modify, troubleshoot and operate complex training equipment like flight simulators. It is intended for both employees and non-employees of FlightSafety International. Students should consult with the Tulsa Community College aviation counselor at the Tulsa Technology Center Riverside Campus before enrolling in this option.

**Degree Awarded:** Associate in Applied Science

**General Education Requirements Credit Hours:** 22

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>6 hours</td>
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<tr>
<td>*ENGL 1113 Freshman Composition I</td>
<td></td>
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<tr>
<td>*ENGL 1213 Freshman Composition II</td>
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<tr>
<td>Social Science</td>
<td>6 hours</td>
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<tr>
<td>POLS 1113 American Federal Government</td>
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<tr>
<td>and select one course from the following</td>
<td></td>
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<tr>
<td>HIST 1483 U.S. History 1492 to Civil War Era</td>
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<tr>
<td>HIST 1493 U.S. History Civil War Era to Present</td>
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</tr>
<tr>
<td>Mathematics</td>
<td>6 hours</td>
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<tr>
<td>*MATH 1513 College Algebra</td>
<td></td>
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<td>*MATH 1613 Plane Trigonometry</td>
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<tr>
<td>Sciences</td>
<td>4 hours</td>
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<tr>
<td>*PHYS 1114 General Physics I</td>
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| Specialized Course Requirements Credit Hours:** 44

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Aviation Sciences Technology</td>
<td>31 hours</td>
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<tr>
<td>AVST 1113 Private Pilot Ground School</td>
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<tr>
<td>* **AVST 1007 Avionics I</td>
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<tr>
<td>* **AVST 1017 Avionics II</td>
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<td>* **AVST 1027 Avionics III</td>
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<tr>
<td>* **AVST 1037 Avionics IV</td>
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<tr>
<td>Electronics</td>
<td>6 hours</td>
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<tr>
<td>*ELET 1223 Fluid Power</td>
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<td>*ELET 2253 Servo-Systems</td>
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<tr>
<td>Computer Information Systems</td>
<td>4 hours</td>
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<tr>
<td>*CSCI 1901 Beginning UNIX</td>
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<td>*CSCI 2753 Introduction to Networking</td>
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<tr>
<td>Total Credit Hours: 63</td>
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<tr>
<td>*Course has prerequisite (See course description section of catalog)</td>
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<tr>
<td>**These courses should be taken at Tulsa Technology Center or any other educational institution which offers FCC approved programs.</td>
<td></td>
</tr>
</tbody>
</table>

## AVIATION SCIENCES TECHNOLOGY

### Management Option - OSU Transfer Option

**Program Description:**
This option is designed to educate the future managers for the aviation industry. The curriculum stresses scientific principles, the human side of management, computer knowledge, critical thinking, cognitive and analytical skills, and communication skills, in addition to mathematics, science and technology. Upon successful completion, the student will be awarded an Associate in Applied Science degree. This option was developed by a joint effort of Tulsa Community College and Oklahoma State University. Students should consult with the Tulsa Community College aviation counselor at the Tulsa Technology Center Riverside Campus before enrolling in this option.

**Degree Awarded:** Associate in Applied Science

**General Education Requirements Credit Hours:** 41

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>3 hours</td>
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<tr>
<td>*ECON 2023 Principles of Microeconomics</td>
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<tr>
<td>English</td>
<td>6 hours</td>
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<td>*ENGL 1113 Freshman Composition I</td>
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<td>*ENGL 1213 Freshman Composition II</td>
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<tr>
<td>Geography</td>
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<tr>
<td>GEOG 1043 Introduction to Cultural Geography</td>
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<tr>
<td>Humanities</td>
<td>3 hours</td>
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<tr>
<td>HUMN 2113 Humanities I</td>
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<td>HUMN 2223 Humanities II</td>
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<tr>
<td>PHIL 1113 Introduction to Philosophy</td>
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<tr>
<td>PHIL 1143 Introduction to Business Ethics: Business Issues</td>
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<tr>
<td>Mathematics</td>
<td>6 hours</td>
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<tr>
<td>*MATH 1513 College Algebra</td>
<td></td>
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<tr>
<td>*MATH 2193 Elementary Statistics</td>
<td></td>
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<tr>
<td>Psychology</td>
<td>3 hours</td>
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<tr>
<td>PSYC 1113 Introduction to Psychology</td>
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<tr>
<td>Sciences</td>
<td>8 hours</td>
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<tr>
<td>ASTR 1104 General Astronomy</td>
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<td>BIOL 1114 General Biology for Non-Majors</td>
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<tr>
<td>*CHEM 1114 Principles of Chemistry</td>
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<td>*PHYS 1114 General Physics I</td>
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<tr>
<td>(One course must be a laboratory science)</td>
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</tr>
<tr>
<td>Social Science</td>
<td>6 hours</td>
</tr>
<tr>
<td>POLS 1113 American Federal Government</td>
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</tr>
<tr>
<td>and select one course from the following:</td>
<td></td>
</tr>
<tr>
<td>HIST 1483 U.S. History 1492 to Civil War Era</td>
<td></td>
</tr>
<tr>
<td>HIST 1493 U.S. History Civil War Era to Present</td>
<td></td>
</tr>
<tr>
<td>Speech</td>
<td>3 hours</td>
</tr>
<tr>
<td>SPCH 1113 Speech Communication I</td>
<td></td>
</tr>
</tbody>
</table>
| Specialized Course Requirements Credit Hours:** 21

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>6 hours</td>
</tr>
<tr>
<td>ACCT 2213 Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>*ACCT 2223 Management Accounting</td>
<td></td>
</tr>
</tbody>
</table>
### TRANSPORTATION, DISTRIBUTION & LOGISTICS

<table>
<thead>
<tr>
<th>Program</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
</table>
| **Aviation Sciences Technology**| 6 hours | AVST 1113 Private Pilot Ground School  
AVST 2113 History of Aviation  
*AVST 1222 Private Pilot Flight Lab  
*AVST 1403 Advanced Theory of Flight  
AVST 2113 History of Aviation  
*AVST 2122 Cross-Country Flight Lab  
*AVST 2132 Instrument Flight Lab  
*AVST 2142 Commercial Flight Lab  
AVST 2191 Validation Flight  
*AVST 2213 Instrument Pilot Ground School  
*AVST 2313 Commercial Pilot Ground School |
| **Computer Information Systems** | 3 hours | CSCI 1203 Computer Concepts and Applications  
*ECON 2023 Principles of Microeconomics |
| **Economics**                   | 3 hours | ECON 2013 Principles of Microeconomics  
ECON 2223 Principles of Macroeconomics |
| **Management**                  | 3 hours | MGT 1353 Management Essentials  
*MATH 1513 College Algebra  
*MATH 1613 Plane Trigonometry |

**Total Credit Hours:** 62  
*Course has prerequisite (See course description section of catalog).  
NOTE - It is recommended that students take MGT 2103 Workforce Development Internship during the last semester before graduation to enhance employability.

### AVIATION SCIENCES TECHNOLOGY  
**Professional Pilot Option - OSU Transfer Option**

**Program Description:**  
This option provides degree and courses generally completed in the freshman and sophomore year of the Bachelor curriculum at Oklahoma State University. The student will be provided with the ground school and flight training necessary to acquire a Federal Aviation Administration (FAA) Private Pilot Instrument and Commercial certification. Upon successful completion, the student will be awarded an Associate in Applied Science degree. TCC Professional Pilot School is a FAA Part 141 approved Pilot School.

**Procedures for enrolling in Aviation Courses:**  
1. All prospective flight students must meet with the TCC aviation counselor at the Tulsa Technology Center Riverside Campus located at 801 East 91st Street.
2. Potential Flight Students must provide the following documents to the Aviation Counselor:
   a. Proof of U.S. Citizenship in form of:
      i. An original birth certificate with raised seal documenting birth in the United States or one of its territories.  
      ii. A valid, unexpired United States passport.  
      iii. An original U.S. Naturalization Certificate with raised seal, Form N-550 or Form N-570.  
      iv. An original certification of birth abroad, Form FS-545 or Form DS-1350 or  
      v. An original Certificate of U.S. Citizenship, Form N-560 or Form N-561.  
   b. Current FAA Medical

**Degree Awarded:** Associate in Applied Science  
**General Education Requirements Credit Hours:** 37  
**Economics 3 hours**  
*ECON 2023 Principles of Microeconomics  
**English 6 hours**  
*ENGL 1113 Freshman Composition I  
*ENGL 1213 Freshman Composition II  
**Geography 3 hours**  
GEOG 1043 Introduction to Cultural Geography  
**Humanities 3 hours**  
HUMN 2113 Humanities I  
HUMN 2223 Humanities II  
PHIL 1113 Introduction to Philosophy  
PHIL 1143 Introduction to Business Ethics: Business Issues  
**Mathematics 6 hours**  
*MATH 1513 College Algebra  
*MATH 1613 Plane Trigonometry  
**Psychology 3 hours**  
PSYC 1113 Introduction to Psychology  
**Sciences 4 hours**  
*PHYS 1114 General Physics I  
**Social Science 6 hours**  
POLS 1113 American Federal Government  
*select one course from the following:  
HIST 1483 U.S. History 1492 to Civil War Era  
HIST 1493 U.S. History Civil War Era to Present  
**Speech 3 hours**  
SPCH 1113 Speech Communication I  
**Specialized Course Requirements Credit Hours:** 27  
**Aviation Sciences Technology 24 hours**  
AVST 1113 Private Pilot Ground School  
*AVST 1222 Private Pilot Flight Lab  
*AVST 1403 Advanced Theory of Flight  
AVST 2113 History of Aviation  
*AVST 2122 Cross-Country Flight Lab  
*AVST 2132 Instrument Flight Lab  
*AVST 2142 Commercial Flight Lab  
AVST 2191 Validation Flight  
*AVST 2213 Instrument Pilot Ground School  
*AVST 2313 Commercial Pilot Ground School  
**Computer Information Systems 3 hours**  
CSCI 1203 Computer Concepts and Applications  
**Total Credit Hours:** 64  
*Course has prerequisite (See course description section of catalog).  
NOTE - All students who are not U.S. Citizens must meet all Transportation Safety Administration clearance requirements before being enrolled in the aviation courses.  
NOTE - It is recommended that students take MGT 2103 Workforce Development Internship during the last semester before graduation to enhance employment.