**Prerequisites and Co-requisites for NSCC Courses**

As of Fall 2015, all entering students will be assigned to a placement level in English (Writing), Math, and Reading depending on their ACT, COMPASS, or SAT scores in those areas. Successful completion of Level 1 progresses students to Level 2. Students who completed all Learning Support competencies in those areas prior to Fall 2015 are categorized as Level 2.

**Levels for English**

<table>
<thead>
<tr>
<th>Level</th>
<th>ACT English sub-score</th>
<th>COMPASS Writing Skills</th>
<th>SAT Critical Reading</th>
<th>Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>17 or below</td>
<td>76 or below</td>
<td>440 or below</td>
<td>ENGL 1010 + ENGL 0815</td>
</tr>
<tr>
<td>2</td>
<td>18 or higher</td>
<td>77 or higher</td>
<td>450 or above</td>
<td>ENGL 1010</td>
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</table>

**Levels for Mathematics**

<table>
<thead>
<tr>
<th>Level</th>
<th>ACT Math sub-score</th>
<th>COMPASS Algebra</th>
<th>SAT</th>
<th>Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18 or below</td>
<td>37 or below</td>
<td>Math: 450 or below</td>
<td>MATH 1000 + 0815, MATH 1010 + 0825, MATH 1530 + 0835, MATH 1630 + 0845</td>
</tr>
<tr>
<td>2</td>
<td>19-26</td>
<td>38-83</td>
<td>Math: 460 or above</td>
<td>MATH 1000, 1010, 1130, 1410, 1530, 1630, or 1710</td>
</tr>
<tr>
<td>3</td>
<td>27 or higher</td>
<td>84 or above</td>
<td>Composite: 1220-1280</td>
<td>MATH 1720, 1830 or below</td>
</tr>
<tr>
<td>4</td>
<td>29 or higher</td>
<td>93 or above</td>
<td>Composite: 1290 or higher</td>
<td>MATH 1910 or below</td>
</tr>
</tbody>
</table>

**Levels for Reading**

<table>
<thead>
<tr>
<th>Level</th>
<th>ACT Reading sub-score</th>
<th>COMPASS Reading</th>
<th>SAT Critical Reading</th>
<th>Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18 or below</td>
<td>82 or below</td>
<td>450 or below</td>
<td>Designated college-level course + READ 0815</td>
</tr>
<tr>
<td>2</td>
<td>19 or higher</td>
<td>83 or higher</td>
<td>460 or above</td>
<td>Any college-level course for which reading competency is a prerequisite</td>
</tr>
</tbody>
</table>
2015-2016 Course Descriptions:

**ACCT 1010 - Principles of Accounting I**

(Formerly ACCT 1104)
3 Credits
3 Class Hours

This course is an introduction to accounting principles, practices, and techniques with an emphasis on the preparation and reporting of financial statements. **Prerequisite(s):** Level 2 placement in Math.

Semester Availability: Fall, Spring, Summer

**ACCT 1020 - Principles of Accounting II**

(Formerly ACCT 1105)
3 Credits
3 Class Hours

This course is a continuation of ACCT 1010 Principles of Accounting I and an introduction to the preparation and use of managerial and cost accounting concepts utilized in planning and controlling operations. **Prerequisite(s):** ACCT 1010 with a grade of “C” or higher

**ACCT 2321 - Intermediate Accounting I**

(Formerly ACCT 2154)
3 Credits
2 Class Hours, 2 Lab Hours

This course is an in-depth study of the conceptual framework of accounting theory and the preparation of financial statements and financial disclosures. Topics may include income measurement and profitability analysis, time value of money, cash and receivables, measurement and valuation of inventory and cost of goods sold, and accounting for plant assets and intangibles. **Prerequisite(s):** ACCT 1020 and INF5 1010 with a grade of “C” or higher.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**ACCT 2322 - Intermediate Accounting II**

(Formerly ACCT 2164)
3 Credits
2 Class Hours, 2 Lab Hours
This course is a continuation of ACCT 2321 Intermediate Accounting I. Topics may include accounting for debt and equity financing; acquisition, utilization, and retirement of non-current assets; investments in debt and equity securities; revenue recognition; lease accounting; pensions; financial reporting and analysis; and accounting changes and error corrections. **Prerequisite(s):** ACCT 2321 with a grade of “C” or higher.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ACCT 2301 - Payroll Accounting**

(Formerly ACCT 2200)
3 Credits
2 Class Hours, 2 Lab Hours

This course is an introduction to payroll procedures and laws affecting payroll operations and employment practices, including compliance reporting. **Prerequisite(s):** ACCT 1010 and INFS 1010 with a grade of “C” or higher.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ACCT 2331 – Tax Accounting**

(Formerly ACCT 2350)
3 Credits
2 Class Hours, 2 Lab Hours

This course introduces the student to basic taxation principles and applications. Topics may include history of taxation, tax legislation, federal and state regulations, preparation of tax forms, and other tax matters. **Prerequisite(s):** ACCT 1020 with a grade of “C” or higher.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ACCT 2382 - Accounting Systems Applications**

(Formerly ACCT 2380)
3 Credits
2 Class Hours, 2 Lab Hours

This course presents the process of setting up and maintaining an accounting information system using
computerized accounting software. **Prerequisite(s):** ACCT 1010 with a grade of “C” or higher and knowledge of basic computer fundamentals.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ACCT 1371 - Accounting Spreadsheets**

(Formerly ACCT 2600)
3 Credits
2 Class Hours, 2 Lab Hours
This course prepares students to solve a wide range of accounting and business application problems using a popular spreadsheet package. **Prerequisite(s):** INFS 1010 with a grade of “C” or higher.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ACCT 2351 - Auditing**

(Formerly ACCT 2740)
3 Credits
3 Class Hours

This course is a study of auditing theory and practices with emphasis on problems that auditors may encounter in the course of an audit. Topics discussed may include verifying accounting data, internal controls, and auditor liability in the preparation of audit reports. **Prerequisite(s):** ACCT 1020 with a grade of “C” or higher.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**ACCT 2381 - Accounting Databases**

(Formerly ACCT 2840)
3 Credits
2 Class Hours, 2 Lab Hours

This course presents the concepts of the accounting information system within a relational database. **Prerequisite(s):** INFS 1010 and ACCT 1020 with a grade of “C” or higher.

Semester Availability: Fall, Spring
ACCT 2391 Special Topics in Accounting

3 Credits
3 Class Hours

This course provides a study of important trends and issues in the field of accounting. Prerequisite(s): ACCT 2321, ACCT 2301, and ACCT 1371 with a grade of “C” or higher.

Semester Availability: Spring

ACCT 2399 - Accounting Capstone

(Formerly ACCT 2900)
3 Credits
3 Class Hours

A capstone course required for all accounting majors. This course reviews topics covered in courses included in the accounting curriculum. Prerequisite(s): ACCT 2321; ACCT 2301, ACCT 2382, ACCT 2351 and ACCT 1371 with a grade of “C” or higher Corequisite(s): ACCT 2322, ACCT 2331, and ACCT 2381

Semester Availability: Spring

ACT 1100 - Interior Design

3 Credits
2 Class Hours, 2 Lab Hours

An introduction of BIM modeling into the interior design practice, emphasizing the evolution of AutoCAD into the BIM world using REVIT Architecture. Topics include an introduction to annotation; architectural graphic standard plans, elevations, sections, schedules, legends, interior; perspectives and isometric views; detailing; families; lighting and rendering; project sharing; sheets; software integration; and printing/plotting. Prerequisite(s): CAD 1650 or instructor permission

Semester Availability: Fall, Spring
Not part of a Tennessee Transfer Pathway

**ACT 1113 - Drawing and Perception**

3 Credits  
2 Class Hours, 2 Lab Hours  

Introduces students to the concepts of perception-based drawing for communication of concepts and ideas. Students will be exposed to a variety of graphic conventions that represent three-dimensional thinking on two-dimensional media. Topics include the basics of value and context, texture, shade and shadow, composition, and presentation.

Semester Availability: Fall and Spring

Not part of a Tennessee Transfer Pathway.

**ACT 1114 - Drawing and Abstraction**

3 Credits  
2 Class Hours, 2 Lab Hours  

Focuses on the development of design skills by addressing the process of abstraction and transformation in drawings. Students build on the skills developed in ACT 1113 and extend that knowledge into color representation and basic mixed media exploration. Emphasizes imaginative and critical thinking about physical space, abstraction, and transformation.

Semester Availability: Fall and Spring

Not part of a Tennessee Transfer Pathway.

**ACT 1161 - Residential Design and Const**

4 Credits  
2 Class Hours, 4 Lab Hours  

An introductory course in the basics of residential design, light construction, and construction drawings. Topics include design concepts and schematic design; application of concepts to a design problem; developing a foundation plan and floor plan; footings and foundations; structural elements; platform framing construction; stairway design; dimensioning; architectural symbols; and developing building sections and elevations. Each student will prepare concept diagrams, schematic drawings, construction drawings, and a study model. Construction drawings will be produced with AutoCAD. **Prerequisite(s):** CAD 1200
Semester Availability: Fall and Spring

Not part of a Tennessee Transfer Pathway

**ACT 1341 - Commercial Design and Codes**

4 Credits
1 Class Hour, 6 Lab Hours

An intermediate-level course that continues elements of ACT 1161 while focusing on building code applications, the design development process, and preparation of life safety drawings. Topics include drawing coordination, symbols, sheet layout, and notations; construction detailing; use and occupancy construction type and building heights and areas; egress components, occupant load and accessibility requirements. The student will prepare life safety drawings, design development, construction drawings and construct a study model for a commercial building project. **Prerequisite(s):** ACT 1161

Semester Availability: Fall and Spring

Not part of a Tennessee Transfer Pathway

**ACT 1391 - History of Architecture I**

3 Credits
3 Class Hours

An introductory course in the history of architectural ideas, construction technology, and community in major world cultures from ancient periods to 1500 A.D. Topics include the development of architecture through historical periods, identification of features and characteristics of architecture during these periods; Ancient architecture, Greek and Roman architecture, Indian architecture, Chinese architecture, Japanese architecture, Islamic architecture, and Byzantine architecture.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**ACT 1392 - History of Architecture II**

3 Credits
3 Class Hours

A continuation of ACT 1391. An introductory course in the history of architectural ideas, construction technology, and community in major world cultures from 1500 A.D. to the 21st century. Topics include tracing the development of architectural ideas and construction techniques through historical periods; identification of features and characteristics of architecture during these periods; Medieval and
Romanesque Architecture; Gothic architecture; indigenous architecture of the Americas and Africa; Renaissance and Baroque architecture; 18th, 19th and 20th century architecture; and Modernism and 21st century architecture.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ACT 2123 - Architectural Presentations**

2 Credits
1 Class Hour, 2 Lab Hours

An advanced presentation graphics course focusing on the preparation of a digital portfolio. Topics include the principles and tools of presentation graphics, the use of 3-D computer software and Web page development. Computer applications may include REVIT, AutoCAD® and Adobe software.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ACT 2160 - Environmental Control Systems**

3 Credits
2 Class Hours, 2 Lab Hours

An advanced-level course that explores the principles of climate control, electrical power distribution, lighting systems, and plumbing. Topics include heat loss/gain, HVAC systems, power plans, artificial lighting plans, day lighting, plumbing, alternate energy sources, sustainability, green building practices, and ecological concerns. Students prepare HVAC, lighting, electrical and plumbing drawings for a small commercial project utilizing BIM (building information modeling) software. **Prerequisite(s):** ACT 1161, CAD 1650 and MATH 1710 (or initial level 3 placement or higher in math).

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ACT 2242 - Architectural Design Process**

4 Credits
1 Class Hour, 6 Lab Hours

An advanced-level course utilizing problem-based case study techniques and continuing elements of ACT 1341. Focuses on the architectural design process. Topics include teamwork, architectural programming,
adjacency matrices, concept diagrams, site analysis, schematic design, modeling, and presentation graphics. Using current drawing and presentation mediums, students will prepare and present a set of project documents that include a programming booklet, a site analysis, schematic and design development drawings, and a model. **Prerequisite(s):** ACT 1341

**Semester Availability:** Fall, Spring

**ACT 2440 - Specifications and Estimating**

3 Credits  
2 Class Hours, 2 Lab Hours

An advanced-level course that provides instruction in owner/contractor/architect-engineer responsibilities, construction document relationships, the bidding process, contracts, and quantity estimating. Topics include the General Conditions of the Contract for Construction; estimate types; contracts; the CSI format; bonds and insurance; specifications and bidding; estimating procedure, overhead, labor and equipment; and the preparation and calculation of quantity surveys. **Prerequisite(s):** CIT 1220

**Semester Availability:** Fall

**Not part of a Tennessee Transfer Pathway**

**ACT 2650 - Construction Documents w/REVIT**

3 Credits  
2 Class Hours, 2 Lab Hours

An advanced course focusing on the understanding and production of construction drawings and documents using Building Information Modeling (BIM) software. Emphasizes construction documentation as a critical

**ART 1030 - Art Appreciation**

(Honors Option Offered)

3 Credits  
3 Class Hours

Provides students with the opportunity to experience the role art plays in life. Students will learn a descriptive, formal vocabulary while researching significant artists, techniques, periods, and styles.
Topics include the relationship between art, religion, politics, and society in a variety of cultures. **Prerequisite(s):** Level 1 placement in English; Level 2 placement in Reading or concurrent enrollment in READ 0815. **Note:** ART 1030 meets the general education requirement for Humanities.

Semester Availability: All

* This course is part of the general education core.

**ART 2221 - Painting I**

3 Credits
3 Class Hours

An introduction to the fundamentals in the art of painting. Topics include fundamentals of visual representation with design and the materials involved in the making of paintings. **Prerequisite(s):** ARTP 1010 and ARTP 1020. **Note:** Students must purchase art supplies.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ART 2222 - Painting II**

3 Credits
3 Class Hours

A continuation of ART 2221 in which a variety of media is explored: watercolor, gouache, acrylic, oil paint, and mixed media. Fundamental skills are emphasized and used as the foundation for more advanced techniques. **Prerequisite(s):** ARTP 1010, ARTP 1020, and ART 2221. **Note:** Students must purchase art supplies.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ARTH 2010 - Survey of Art History I***

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of art history that provides students with the opportunity to see how history and art are interwoven from prehistoric times to the Middle Ages. **Prerequisite(s):** Level 1 placement in English;
Level 2 placement in Reading or concurrent enrollment in READ 0815. **Note:** ARTH 2010 meets the general education requirement for Humanities.

Semester Availability: Fall, Spring, Summer (online only)

* This course is part of the general education core.

**ARTH 2020 - Survey of Art History II***

(Honors Option Offered)

3 Credits
3 Class Hours

A continuation of Art History I that provides the opportunity to see how history and art are interwoven from the Renaissance to Modern times. **Prerequisite(s):** Level 1 placement in English; Level 2 placement in Reading or concurrent enrollment in READ 0815. **Note:** ARTH 2020 meets the general education requirement for Humanities.

Semester Availability: Fall, Spring

* This course is part of the general education core.

**ARTP 1010 - Drawing I**

3 Credits
3 Class Hours

An introduction to the basic principles and materials of drawing. Materials include pencil, charcoal, inks, and conte. Topics include a disciplined approach to landscape and figure drawing while exploring realistic and abstract styles, model drawings, landscape drawings, and still life drawings. **Note:** Students must purchase art supplies.

Semester Availability: All

**ARTP 1020 - Drawing II**

3 Credits
3 Class Hours

A continuation of Drawing I. Topics include concepts of the drawing media that involve color: soft or oil pastel, colored inks, and colored pencil. Emphasis is placed on the concepts involved in experimental drawing. **Prerequisite(s):** ARTP 1010. **Note:** Students must purchase art supplies.

Semester Availability: Fall, Spring
ARTP 1110 - Two-Dimensional Design

3 Credits
3 Class Hours

An introduction to a variety of art materials, to basic principles of design (movement, rhythm, and balance), and to the art elements and their uses in art (line, tone, color, space, and texture). **Note:** Students must purchase art supplies.

Semester Availability: Fall, Spring

ARTP 1120 - Three-Dimensional Design

3 Credits
3 Class Hours

Introduces students to the basic principles of three-dimensional design. Students will use material and medium, relating them to form, to create original compositions that utilize space. **Note:** Students must purchase art supplies.

Semester Availability: Spring

ASTR 1010 - Solar System Astronomy*

4 Credits
3 Class Hours, 3 Lab Hours

An introductory course in the astronomy of our Solar System. Topics include the history of astronomy, astronomical coordinates, Newton’s Laws, gravitation, properties of light, kinds of telescopes and their uses, the Moon, eclipses, the Sun and its planets, asteroids, comets, and other interplanetary objects. **Prerequisite(s):** Level 2 placement in Math and Reading.

Semester Availability: All

* This course is part of the general education core.

ASTR 1020 - Stellar and Galactic Astronomy*

4 Credits
3 Class Hours, 3 Lab Hours

An introductory course in the astronomy of stars and galaxies. Topics include the history of astronomy, astronomical coordinates, Newton’s Laws, gravitation, properties of light, kinds of telescopes and their uses, the Sun, stars, and stellar properties, nebulae, star clusters, galaxies and galactic distributions,
pulsars, quasars, neutron stars, black holes, and cosmology. **Prerequisite(s):** Level 2 placement in Math and Reading.

Semester Availability: Fall, Spring

* This course is part of the general education core.

**BIOL 1000 - Medical Terminology**

3 Credits  
3 Class Hours

Medical terms, abbreviations combining forms and definitions with associated anatomy. Topics include roots, prefixes, and suffixes commonly used in the medical field and terminology related to all eleven body systems and disorders of those systems.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BIOL 1004 - Basic Anatomy/Physiology**

3 Credits  
3 Class Hours

An introduction to human anatomy and physiology. Topics include the cell, and organ systems including integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive as well as disorders of these systems.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BIOL 1006 - First Aid and CPR**

3 Credits  
3 Class Hours

Cardiopulmonary resuscitation and first aid including the use of an Automatic External Defibrillator (AED). Topics include adult and infant CPR (both one-man and two-man), basic first aid and AED use. American Heart Association Healthcare Provider CPR Certification will be awarded upon successful completion.

Semester Availability: All
BIOL 1010 - Intro to Biology I*

(Non-Science Majors Only)

4 Credits
3 Class Hours, 3 Lab Hours

An introduction to biology course. Topics include cell structure and function, organic molecules and energy pathways, genetics, evolution, and the principles of ecology. This course does not fulfill the science requirement for biology majors. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

* This course is part of the general education core.

BIOL 1020 - Intro to Biology II*

(Non-Science Majors Only)

4 Credits
3 Class Hours, 3 Lab Hours

A continuation of Intro to Biology I, this course surveys the kingdoms of life, with particular attention to the animal and plant kingdoms. In the animal kingdom, there is an emphasis on the human organism and its organ systems. In the plant kingdom, there is an emphasis on structure, nutrition, and reproduction. This course does not fulfill the science requirement for biology majors. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

* This course is part of the general education core.

BIOL 1110 - General Biology I*

(Science Majors Only)

4 Credits
3 Class Hours, 3 Lab Hours

A comprehensive course suitable for biology majors and minors. Fulfills the science requirement for pre-medicine, pre-pharmacy, pre-medical technology, pre-veterinary medicine, and pre-dentistry programs. Topics include the unifying principles found in all organisms, their molecular and cellular basis, the mechanisms of heredity, the interrelationships of organisms, and their evolution. **Prerequisite(s):** Level
2 placement in English, Math and Reading.

Semester Availability: All

* This course is part of the general education core.

**BIOL 1120 - General Biology II***

(Science Majors Only)

4 Credits
3 Class Hours, 3 Lab Hours

A continuation of General Biology I and is suitable for biology majors and minors. Fulfills the science requirement for pre-medicine, pre-pharmacy, pre-medical technology, pre-veterinary medicine, and pre-dentistry programs. The Kingdoms of life and representative organisms are discussed, with particular attention to the Kingdoms Animalia and Plantae. Emphasis is placed on the tissues, organs, and physiology of representative members. **Prerequisite(s):** BIOL 1110

Semester Availability: Fall, Spring

* This course is part of the general education core.

**BIOL 1215 - Principles of Nutrition**

3 Credits
3 Class Hours

A course in human nutrition with emphasis on scientific principles, metabolism, and requirements for nutrients. Topics of interest to those in health care and related professions are stressed. **Prerequisite(s):** Level 2 placement in English, Math and Reading.

Semester Availability: All

**BIOL 2000 - Independent Research**

1-4 Credits

This is a general elective science course intended for students majoring in the sciences. This course is designed to introduce students to the basic principles of conducting scientific research. Students will be taught experimental design and allowed to conduct independent research in conjunction with a class project. Students will be responsible for collecting, analyzing and interpreting their own data; and incorporating their results into the larger framework of the class project. In addition, students will be required to write a scientific paper following appropriate format and present their findings to an open forum. Research projects will be under the supervision of faculty. **Prerequisite(s):** Instructor permission
Semester Availability: As needed

Not part of a Tennessee Transfer Pathway

**BIOL 2010 - Anatomy and Physiology I***

4 Credits
3 Class Hours, 3 Lab Hours

An intensive course for students interested in health-related fields that will count as a biology elective. Topics include the skeletal, articular, muscular, nervous, and integumentary systems; cellular chemistry and structure; and histology. **Prerequisite(s):** Level 2 placement in English, Math and Reading.

Semester Availability: All

* This course is part of the general education core.

**BIOL 2020 - Anatomy and Physiology II***

4 Credits
3 Class Hours, 3 Lab Hours

A continuation of BIOL 2010 designed primarily for students interested in health-related fields that will count as a biology elective. Topics include the cardiac, vascular, hematologic, respiratory, immune, urinary, digestive, reproductive, and endocrine systems. **Prerequisite(s):** BIOL 2010 with a grade of "C" or higher

Semester Availability: All

* This course is part of the general education core.

**BIOL 2115 - Environmental Science***

4 Credits
3 Class Hours, 3 Lab Hours

A survey course designed to examine natural systems and the impact of human society on those systems. Topics covered will include principles of ecology, biodiversity, and population dynamics; additionally, the course will address the socioeconomic and environmental costs associated with natural resource consumption, energy production, pollution, and waste generation. Laboratory work and off-site activities will provide additional opportunities for students to develop critical thinking and environmental problem solving skills, as they address local environmental issues. **Prerequisite(s):** Level 2 placement in English, Math and Reading.
Semester Availability: Fall, Spring

* This course is part of the general education core.

**BIOL 2211 - General Botany***

4 Credits
3 Class Hours, 3 Lab Hours

A course in the anatomy, physiology, reproduction and taxonomy of lower to higher plants. Topics include organization of plant cells and tissue systems, morphology, respiration and photosynthesis, genetics, growth and development, environmental factors, nutrition, ecology, and mechanisms of evolution. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Spring

* This course is part of the general education core.

**BIOL 2230 - Microbiology**

4 Credits
3 Class Hours, 3 Lab Hours

This is a comprehensive course that stresses applied microbiology and the roles of microbes in health and disease. Topics include microbial structure, growth, metabolism, genetics, ecology, and systematics with emphasis on the pathology of bacteria, viruses, fungi, and protozoa. **Prerequisite(s):** Level 2 placement in English, Math and Reading.

Semester Availability: All

**BUSN 1300 - Personal Finance**

(formerly BUS 2240 - Personal Money Management)
3 Credits
3 Class Hours

An introduction to planning personal financial objectives. Topics covered include budgeting, consumer borrowing, renting and buying, insurance, taxation, investing, and planning for retirement.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway
**BUSN 1301 - Legal Issues for the Web**

(Formerly BUS 1050 - Legal Issues for the Web)
3 Credits
3 Class Hours

Studies Internet law and guidelines for putting existing material online. Topics include creating material specifically for the Internet, using material found on the Internet, e-commerce, educational aspects of the Internet, and the rules that affect business.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**BUSN 1305 - Introduction to Business**

(Formerly BUS 1113 - Intro to Business)
3 Credits
3 Class Hours

An introduction to the private enterprise system. Topics covered include forms of business organizations, business finance, human resource management, production, entrepreneurship, business ethics, marketing, and the changing business environment.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BUSN 1350 - Sales and Service**

(Formerly MKT 1400 - Customer Service & Sales)
3 Credits
3 Class Hours

An introduction to the fundamentals of customer service and selling. Topics include developing and conveying a positive attitude, identifying buying motives and customer needs, developing and delivering a sales presentation, customer approaches, sales strategies, and cultivating repeat business through service.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BUSN 2300 - Business Ethics**
(Formerly BUS 2310 - Business Ethics)
3 Credits
3 Class Hours

An introduction to basic ethical theories and value systems. Topics include application of these perspectives including moral issues, problems, and situations which arise within the business environment. Topics include codes of ethics, conflict of interest, social responsibility, the work ethic, and fiduciary responsibilities. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BUSN 2311 - Leadership**

(Formerly BUS 2311 - Leadership)
3 Credits
3 Class Hours

Studies the nature and attributes of leadership through case studies and biographies. Topics include the difference between leadership ability and management skills as well as identifying traits and abilities which have distinguished effective leaders from ineffective ones. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**BUSN 2330 - Principles of Management**

(Formerly BUS 2400 - Principles of Management)
3 Credits
3 Class Hours

Studies how a business organization works and the relationships of the people within the organization. Topics include managerial functions, motivation of employees, the decision-making process, communication, responsibility, authority, and personnel management through class discussion and case studies. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BUSN 2340 - Human Resource Management**
BUSN 2250 - Human Resource Management

(Formerly BUS 2250 - Human Resource Management)
3 Credits
3 Class Hours

Studies basic principles of managing human resources. Topics include laws that relate to all aspects of HR function, planning, job analysis, job specifications, employee selection, training and development, performance evaluations, salary determination, benefits, labor relations, and current techniques used to improve productivity and morale. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

BUSN 2350 - Organizational Behavior

(Formerly BUS 2111 - Organizational Behavior)
3 Credits
3 Class Hours

Studies the importance of understanding human relations in the workplace and how interpersonal relationships have evolved in this century from an emphasis on production to an emphasis on developing and utilizing the whole person. Topics include communication, conflict, motivation, power, decision making, and self-esteem. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

BUSN 2370 - Legal Environment of Business

(Formerly BUS 2650 - Legal Environment of Business)
3 Credits
3 Class Hours

An introduction to the legal rights and liabilities of businesses. Topics include the legal environment of business; development and nature of the legal system; types of business organization and ownership; torts; contracts; product liability; agency; intellectual property; consumer protection statutes; and legislative, judicial, and administrative controls. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

BUSN 2380 - Principles of Marketing
(Formerly MKT 2220 - Marketing)
3 Credits
3 Class Hours

Presents the practices and basic principles of marketing from origin to the ultimate consumer. Topics include the marketing mix, buyer behavior, organization and planning, channels of distribution, and promotion. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**BUSN 2383 - Consumer Behavior**

(Formerly MKT 2221 - Consumer Behavior)
3 Credits
3 Class Hours

A study of how consumer behavior influences the marketing manager's decisions. Topics include the social, physiological, psychological, and environmental factors. Decision-making processes that have an effect on the purchasing and use of goods and services by individuals and households are included. **Prerequisite(s):** Level 2 placement in English and Reading; BUSN 2380 (Formerly MKT 2220)

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**BUSN 2395 - Business Applications**

(Formerly BUS 2900 - Management Applications)
3 Credits
3 Class Hours

Integrates the student's knowledge of the basic functional areas of business into a general strategic perspective for managing the entire organization. Topics include case studies and secondary research sources that will be utilized to analyze a broad range of business problems and managerial decision making. Required: A student must be completing the last semester of studies at Nashville State to enroll in this course. Program Coordinator approval required. **Prerequisite(s):** BUSN 1350 (Formerly MKT 1400), BUSN 2350 (Formerly BUS 2111), BUSN 2370 (Formerly BUS 2650), BUSN 2380 (Formerly MKT 2220), and ECON 2010 or ECON 2020

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**CAD 1200 - Computer-Aided Drafting I**
3 Credits
1 Class Hour, 4 Lab Hours

An introductory course in computer-aided drafting using AutoCAD software. Topics include familiarization with computers and the basic elements of computer-aided drafting used in professional practice. Drafting exercises in various disciplines provide hands-on computer experience. Students will complete this class with entry-level computer-aided drafting skills. Topics include practice in the use of the majority of the drawing and editing commands, drawing setup, templates, blocks, layouts, scaling, printing, and techniques used to create fast and accurate drawings in a work environment.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**CAD 1301 - Computer-Aided Drafting II**

3 Credits
2 Class Hours, 4 Lab Hours

A continuation of CAD 1200 providing more in-depth knowledge of CAD software used to enhance speed and accuracy, as well as a better understanding of various drafting disciplines. Topics include advanced features and productivity-enhancing techniques. Students will also be introduced to three-dimensional drawing and finish the semester with a portfolio style project. **Prerequisite(s):** CAD 1200

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**CAD 1510 - CAD Final Project**

2 Credits
2 Class Hours

The final class for students obtaining a Computer-Aided Drafting technical certificate. Students will utilize information obtained from previous classes to present a project of their choice. This project will culminate with a set of commercial-grade drawings for use in a portfolio. **Prerequisite(s):** Must be scheduled in final semester

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**CAD 1600 - 3-D Design/Modeling SolidWorks**
3 Credits
3 Class Hours, 1 Lab Hour

A “hands-on” learning experience in the methods and use of 3-D Design using SolidWorks. The students will learn the methods and practices of designing individual components as well as entire assemblies. Topics include modeling, editing, and presentation practices using real world lessons. **Prerequisite(s):** Previous drafting experience or instructor approval.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CAD 1610 - 3-D Design Final Project**

2 Credits
1 Class Hour, 2 Lab Hours

This class is the final course in the 3-D Design technical certificate. Students will be required to utilize the skills and techniques derived from the culmination of studies in this program. Students will create and present a 3-D design of their own choice for portfolio use during job interviews. Topics include video editing, 3-D prototyping, printed presentations, and DVD and CD mastering. **Prerequisite(s):** Must be scheduled in final semester of the technical certificate.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**CAD 1650 - 3-D Design with Revit Arch I**

3 Credits
2 Class Hours, 2 Lab Hours

A “hands-on” class that explores the fields of designing and presenting ideas with Revit software, a Building Information Management (BIM) system. Topics include the concepts and principles of 3-D parametric software in designing architectural projects. Use of the 3-D design process in creating and revising architectural designs is emphasized. The class teaches functionality and creativity starting with simple parametric skills and expanding to complicated designs, using key features of the software. **Prerequisite(s):** CAD 1200, experience in the Architectural field, or instructor approval.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**CAD 1700 - Intro to Digital Animation**
4 Credits
4 Class Hours

An introductory course in Digital Animation. Topics include the concepts, theory and aesthetics of digital design and animation; creating 2-D elements and 3-D models; applying surface materials, lighting, animating and rendering scenes. Additional topics include techniques used in product design and marketing, video games, and graphics for Web, film and broadcast video. Two lab hours may be taken as independent study.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CAD 2113 - 3-D AutoCAD & Solid Modeling**

3 Credits
2 Class Hours, 2 Lab Hours

An advanced course using AutoCAD software. This course provides the student with 3-D drafting techniques used in all fields of design. Topics include learning to think in three dimensions, the creation of 3-D objects, and standard drafting versus 3-D techniques. Students will complete this course with the ability to design and create 3-D objects, and present them as picture images and design prints.

**Prerequisite(s):** CAD 1200

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CAD 2650 - 3-D Design with Revit Arch II**

3 Credits
2 Class Hours, 2 Lab Hours

This class is a continuation of CAD 1650 - 3-D Design with Revit Arch I. Topics will include a more in depth exploration into the construction and manipulation of massing studies, Modeling techniques, a more detailed exploration of the Visibility Graphics settings, Multi party drawing projects, the use of topography in Architectural drawing, Advanced Detailing techniques, and an introduction into the use of the structural components of REVIT Architecture. **Prerequisite(s):** CAD 1650 or instructor approval.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CAD 2700 - Advanced Digital Animation**
A continuation of the CAD 1700 for learning advanced techniques. Topics include advanced lighting, surface materials, rendering techniques, character modeling techniques, character animation, animation controllers and special effects. Also covered are integrating existing video and still images with animated elements, and digital animation production for various disciplines. **Prerequisite(s):** CAD 1700 or instructor approval.

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**CHEM 1015 - Basic Chemistry**

3 Credits
3 Class Hours

An introduction to chemical principles and concepts. Topics include properties of matter, elements and compounds, atomic structure, periodic properties, chemical bonding and reactivity, energy relations, organic chemicals and polymers, toxic substances, and environmental chemistry. **Prerequisite(s):** Level 2 placement in Math.

**Semester Availability:** As needed

Not part of a Tennessee Transfer Pathway

**CHEM 1030 - Fundamentals of Chemistry***

4 Credits
3 Class Hours, 3 Lab Hours

An introduction to the fundamental concepts of General, Organic and Biological Chemistry. Topics include measurements, energy and matter, atoms and elements, compounds and their bonds, chemical reactions and quantities, gases, solutions, acids and bases, saturated and unsaturated hydrocarbons, organic compounds, carbohydrates, lipids, amino acids, proteins and enzymes, and metabolic and energy pathways. **Prerequisite(s):** Level 2 placement in English, Math and Reading.

**Semester Availability:** All

* This course is part of the general education core.

**CHEM 1110 - General Chemistry I***

4 Credits
3 Class Hours, 3 Lab Hours
An in-depth study of the fundamental concepts of chemistry. Topics include matter and measurement, atomic and molecular structure, nomenclature, formulas and equations, stoichiometry, aqueous reactions, gases, thermochemistry, periodic trends, molecular geometry, and chemical bonding. **Prerequisite(s):** Level 2 placement in English and Reading, and Initial Level 2 placement or higher in Math, or MATH 1000. (MATH 1130 - College Algebra* highly recommended)

**Semester Availability:** All

* This course is part of the general education core.

**CHEM 1120 - General Chemistry II***

4 Credits
3 Class Hours, 3 Lab Hours

A continuation of CHEM 1110. Topics include solutions, acids and bases, chemical equilibrium, thermodynamics, kinetics, electrochemistry, oxidation and reduction reactions, nuclear chemistry and an introduction to organic chemistry. **Prerequisite(s):** CHEM 1110

**Semester Availability:** All

* This course is part of the general education core.

**CHEM 2010 - Organic Chemistry I**

4 Credits
3 Class Hours, 3 Lab Hours

A study of carbon compounds, their preparations, structures, nomenclature, properties, and reactions. Topics include alkanes, alkenes, alkynes, cycloalkanes, alkyl halides, aromatics, and stereochemistry. The lab component stresses skills in synthesis, extraction, purification, separation, and characterization of organic compounds. **Prerequisite(s):** CHEM 1120

**Semester Availability:** All

**CHEM 2020 - Organic Chemistry II**

4 Credits
3 Class Hours, 3 Lab Hours

A continuation of CHEM 2010. Topics include spectroscopy, alcohols, ethers, aldehydes, ketones, carboxylic acids, and amines. The lab component stresses skills in synthesis, extraction, purification, separation, and characterization of organic compounds. **Prerequisite(s):** CHEM 2010
CIS 1010 - Intro Information Technology

3 Credits
3 Class Hours

Designed to provide the student with a useful and updated introduction to information technology. Topics include computer hardware, the Internet, application software, system software, networking and security, and mobile computing. Students work together in teams and learn how to create PowerPoint presentations. **Prerequisite(s):** Level 2 placement in English and Reading. **Note:** CIS 1010 is not to be taken by CIS majors and does not qualify as a technical elective for CIS majors.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CIS 1030 - Program Logic and Design

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to the basic logic necessary in business applications programming. Topics include logic analysis, techniques of structured design, flowcharting, and a hands-on tool for implementing programming techniques. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CIS 1040 - Business for Information Tech

3 Credits
2 Class Hours, 2 Lab Hours

Focuses on fundamental principles and issues of information technology as an organizational resource. The primary purpose is to provide an awareness of the role of information technology in providing computer-based solutions to business problems. Business process as well as evaluation, selection, and acquisition of information technologies will be explored through case studies. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway
**CIS 1060 - Project Management**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to traditional, adaptive, and extreme project management. Topics include developing project overview statements, work breakdown structures, Gantt charts and project network diagrams. Microsoft Project will be used in applying project management techniques. Case study will reinforce theory and application. **Prerequisite(s):** Level 2 placement in English, Reading and Math.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CIS 1070 - Professional Workplace Skills**

3 Credits
2 Class Hours, 2 Lab Hours

Introduces the students to the crucial soft skills requisite for success. Topics include verbal communication, written communication, problem-solving and decision-making, teamwork and team building, and professionalism. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CIS 1170 - Web Application Development**

3 Credits
2 Class Hours, 2 Lab Hours

Introduces students to basic programming concepts of developing Web-based applications. Students will create Web pages using HTML and JavaScript relative to developing interactive applications. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CIS 2060 - Advanced Project Management**

3 Credits
2 Class Hours, 2 Lab Hours
An overview of the theoretical and practical aspects of managing information system projects. Topics include project integration, scope, time, cost, quality, human resources, communication, risk, and procurement. Microsoft Project will be used in applying project management techniques. Case study will reinforce theory and application. **Prerequisite(s):** CIS 1060 (with a minimum grade of "C" or higher)

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIS 2180 - Dynamic Web Programming**

3 Credits  
2 Class Hours, 2 Lab Hours

An introduction in creating dynamic, database-driven Web applications using DreamWeaver. Topics include querying databases and updating databases, site management, libraries, snippets, extensions, CSS, behaviors, CFML, scope, and charting. **Prerequisite(s):** CIS 1170 or COM 1000 and CIS 2230. All courses require a grade of “C” or higher.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CIS 2230 - Database Concepts**

3 Credits  
2 Class Hours, 2 Lab Hours

An introduction to the concepts and syntax of relational database management systems for microcomputers. Topics include data modeling, database design concepts including normalization, and their application through the creation of tables, queries using both QBE and SQL, forms, and reports using the tools provided in a relational DBMS.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIS 2270 - Java Application Development**

3 Credits  
2 Class Hours, 2 Lab Hours
Introduces the programming concepts of the Java application development language. Topics include Java compilers and interpreters, application development concepts, class methods, inheritance, objects, events, error handling, applets, database manipulation, and other concepts related to developing Java applications. **Prerequisite(s):** CIS 1030 with a grade of "C" or higher

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIS 2330 - Oracle Database SQL**

3 Credits  
2 Class Hours, 2 Lab Hours

An introduction to the Oracle Database relational database concepts and the powerful SQL programming language. Topics include essential SQL skills of querying the database, the meta data, and creating database objects. Also delves into the advanced querying and reporting techniques, data warehousing concepts, and manipulating large data sets in different time zones. **Prerequisite(s):** CIS 2230 with a grade of “C” or higher

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CIS 2350 - SQL Server**

3 Credits  
2 Class Hours, 2 Lab Hours

An introduction to the Microsoft SQL Server relational database concepts plus the powerful SQL and Transact-SQL programming language. Topics include relational database architecture, database design techniques, simple and complex query skills, Structured Query Language (Transact-SQL) in the Microsoft SQL Server environment, DTS packages and transformations, transact SQL queries, creating views, creating and tuning indexes, building transactions and triggers, and creating stored procedures. **Prerequisite(s):** CIS 2330 with a grade of “C” or higher

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIS 2370 - Advanced Java**

3 Credits  
2 Class Hours, 2 Lab Hours
An introduction to the Java 2 Enterprise Edition (J2EE) architecture and its Web services technology. Topics include database concepts and the Java data object (JDBC/OC4J), Java and XML, Java Server Pages (JSP), and Enterprise JavaBeans (EJB). Oracle’s JDeveloper integrated development environment will be used to create applications using the above concepts as well as Business Components for Java (BC4J) features. **Prerequisite(s):** CIS 2270 with a grade of “C” or higher

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CIS 2400 - Intro to .Net Programming**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to the Visual Basic and C# .Net programming languages. Topics include basic concepts of programming, problem-solving, and programming logic, and design techniques of an object-oriented language. Also includes types, classes, inheritance, Arrays, collections, delegates, events and debugging. **Prerequisite(s):** CIS 2270 with a grade of “C” or higher

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CIS 2420 - Net Windows-Based Client Dev.**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction on how to develop Windows-Based applications using the Microsoft .Net Framework. Students must have a working knowledge of C# and Visual Basic before taking this course. Topics include creating the user interface, integrating data, reports, implementing asynchronous programming techniques, and Windows Forms controls. **Prerequisite(s):** CIS 2400 with a grade of “C” or higher

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIS 2430 - Net Web-Based Client Dev.**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction on how to develop Web-Based applications using the Microsoft .Net Framework.
Students must have a working knowledge of C# and Visual Basic before taking this course. Topics include creating Web applications using Web server controls, event handlers, application state, creating custom Web server controls, and integrating Web applications with back-end databases. **Prerequisite(s):** CIS 2400 with a grade of “C” or higher

**Semester Availability:** Spring

*Not part of a Tennessee Transfer Pathway*

**CIS 2500 - Special CIS Topics**

3 Credits  
2 Class Hours, 2 Lab Hours

Special topics to be selected and announced at time of class scheduling. May be repeated for up to a total of six credits. **Prerequisite(s):** Permission of the instructor required

**Semester Availability:** Fall

*Not part of a Tennessee Transfer Pathway*

**CIS 2600 - IT Professional Capstone**

3 Credits  
2 Class Hours, 2 Lab Hours

A comprehensive review of concepts taught in the CIS program. A case study or project will be used in the application and reinforcement of principles that are the basis of the System Design Life Cycle. Time outside of class for team projects will be required. An exit exam will be administered as a means of assessing CIS program outcomes. **Prerequisite(s):** CIS 1060, CIS 2180, CIS 2230, CIS 2400, and SPCH 1112 All courses require a grade of “C” or higher.

**Semester Availability:** Spring

*Not part of a Tennessee Transfer Pathway*

**CISP 1010 - Computer Science I**

(Formerly CS 1170)  
4 Credits  
4 Class Hours

The first of a two-semester sequence using the high-level language C. The emphasis is on problem-solving using the language and principles of structured software development. The topics covered (including the language syntax) are simple data structures such as arrays and strings, pointers, pointer arithmetic, arrays and pointers, functions, function overloading, function parameters, return types,
structures and unions, and C based I/O. **Prerequisite(s):** Initial Level 2 placement or higher in Math, or MATH 1000.

Semester Availability: Fall, Spring

**CISP 1020 - Computer Science II**

(Formerly CS 2170)
4 Credits
4 Class Hours

A continuation of CISP 1010. Topics include introductory object-oriented programming techniques using the C++ language, operator and function overloading, software engineering principles, records, pointers, inheritance, other data structures such as stacks, queues, and linked lists and the C++ I/O system. **Prerequisite(s):** CISP 1010

Semester Availability: Fall, Spring

**CISP 2216 - Programming C++**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to the C++ programming language. Topics include syntax of the C++ language, flow or control, input and output, arithmetic operations, function definitions and calls, flowcharting and pseudocode. **Prerequisite(s):** Level 2 placement in Math.

**CIT 1220 - Materials/Methods Construction**

3 Credits
3 Class Hours

An introduction to the materials and methods of construction. Topics include responsibilities of the contract parties, concepts of structures, building materials, methods of construction, and principles of sustainability. Materials discussed include concrete, metals, masonry, wood and glass.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CIT 1230 - Testing of Materials**
An introduction to the standard tests used in a soils laboratory and on construction sites. Topics include identification and classification of soils and concrete properties and mix design. Labs include sieve analysis, moisture content, Atterberg Limits, hydrometer analysis, compaction, field density, concrete slump and cylinder. **Corequisite(s):** Initial Level 2 placement in Math or MATH 1000.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIT 2110 - Structural Mechanics**

3 Credits
3 Class Hours

An introductory course on structural analysis to acquaint the student with the forces and loads acting on structures and how they are resisted by the structural system. Topics include components and resultants of forces; equilibrium equations; reactions for beams, frames, and trusses; centroids; moments of inertia; shear and moment diagrams; and analysis of trusses. Students analyze structures with both calculators and computers. **Prerequisite(s):** MATH 1710 or Level 3 placement in Math.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CIT 2114 - Construction Management**

3 Credits
3 Class Hours

A comprehensive course designed to familiarize the students with all aspects of a light or heavy construction project. Topics include responsibility and authority, construction documents, contracts, construction law, safety, planning, scheduling, materials and workmanship, and change orders. **Prerequisite(s):** CIT 1220

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CIT 2131 - Surveying I**
An introductory course in land surveying. Emphasis is on the basics of field and office work. Topics include errors and accuracy, bearings, azimuths, leveling, coordinate geometry, traverses, topographic mapping, area, volume, construction surveys, radial surveys. Laboratory exercises use the steel tape, automatic level and total station with data collector. **Prerequisite(s):** MATH 1710 or Level 3 placement in Math.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CIT 2200 - Hydraulics and Water Systems**

An introductory course in water flow and Environmental Engineering Technology. Topics include pressure and gravity flow in pipes; sources, treatment, storage, and delivery of potable water; sewer lines and collection of wastewater; and treatment and disposal of wastewater and sludge. **Prerequisite(s):** MATH 1710 or Level 3 placement in Math.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CIT 2301 - Hydrology and Site Design**

An advanced course designed to use students’ prior knowledge of drafting, surveying, and hydraulics in the subdivision and development of property. Topics include storm water runoff and storm sewer systems, street pattern variables and intersections, site planning, utilities, and earthwork calculations. Students will be required to present work using AutoCAD. **Prerequisite(s):** CAD 1200 and MATH 1710 or Level 3 placement in Math.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
CIT 2311 - Surveying II

4 Credits
2 Class Hours, 4 Lab Hours

A continuation of CIT 2131. Topics include horizontal and vertical curves, boundary surveys, construction surveys, slope stakes, celestial observations, state plane coordinates, triangulation, and resection. Laboratory exercises are on the layout of horizontal curves, slope stakes, celestial observations and introduction to GPS and GIS. **Prerequisite(s):** CIT 2131

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

CIT 2312 - Geographic Information Systems

4 Credits
2 Class Hours, 4 Lab Hours

This lab-based course provides the foundation for understanding what GIS is, what it can do, and how others are using it. Topics include the basic functions of a GIS, why a GIS database is powerful, what coordinate systems and map projections are and why they are important. Via hands-on training and exercises, students work with ESRI ArcMap software to visualize geographic data, create maps, query a GIS database, perform spatial analysis using common analysis tools, and solve geographic problems using a systematic approach. **Prerequisite(s):** CIT 2131 or instructor permission

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

CIT 2400 - Structural Design

3 Credits
3 Class Hours

A continuation of CIT 2110. Emphasis is placed on the design of wood, steel and concrete structural elements. The NDS, AISC and ACI Codes are used respectively. Topics include steel beams, columns, detailing and connections, concrete beams, slabs, foundations and reinforcing bars. **Prerequisite(s):** CIT 2110

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
CNT 1005 - Intro to Computer Networks

3 Credits
3 Class Hours

A broad-based course that provides an overview of computer networking. Topics include services, networks, voice and data communications, and equipment. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 1060 - Cisco Routers I

4 Credits
4 Class Hours

Introduction to Networks is the first of two courses leading to the Cisco Certified Entry Networking Technician (CCENT) designation and is the first of four courses leading to the Cisco Certified Network Associate (CCNA R&S) designation. Introduces Networking Academy Program students to the networking field. Topics include Network terminology, Network protocols, Local-area networks (LANs), Wide-area networks (WANs), Open System Interconnection (OSI) model, Cabling, Routers, Internet Protocol (IP) addressing, and Network standards. **Prerequisite(s):** None

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 1090 - Wireless Networking

4 Credits
4 Class Hours

Focuses on the design, installation, configuration, operation, and troubleshooting of 802.11a, 802.11b, and 802.11g wireless LANs. A comprehensive overview of wireless technologies, devices, security, design, and best practices with a particular emphasis on real world applications and skills. **Prerequisite(s):** CNT 1160

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway
CNT 1160 - Cisco Routers II

4 Credits
4 Class Hours

Routers and Switching Essentials is the second of two courses leading to the Cisco Certified Entry Networking Technician (CCENT) designation and is the second of four courses leading to the Cisco Certified Network Associate (CCNA R&S) designation. Focuses on basic routing and switching concepts, Virtual LANs (VLANs), Inter-VLAN routing, static routing and dynamic routing protocols, Single-Area OSPF, Access Control Lists (ACLs), Dynamic Host Configuration Protocol (DHCP) and Network Address Translation (NAT). **Prerequisite(s):** CNT 1060

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 1170 - Microsoft Professional OS

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to Microsoft Windows desktop. Topics include operating system installation and configuration, network administration tasks, user profiles, shared resources, network planning and implementation, and security. **Prerequisite(s):** Level 2 placement in Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

CNT 2110 - Applied Networking Fundamentals

4 Credits
4 Class Hours

First of two courses developed to prepare students to solve real world networking problems. Students will work individually and in teams to solve problems presented by the case studies. Topics include the review of DOS concepts and commands as well as a variety of other operating systems, installing, configuring, maintaining, and troubleshooting Ethernet networks using Virtualization, and also building servers and workstations using various operating systems. Major emphasis will be placed on teamwork and leadership. This course is based on the re-design and implementation of a real world company network. **Prerequisite(s):** CNT 1160 and CNT 2350

Semester Availability: Fall
CNT 2130 - Advanced Applied Networking

4 Credits
4 Class Hours

A continuation of CNT 2110. Emphasis will be placed on Network Management and Analysis topics as they relate to the network and devices implemented in the lab environment. Teamwork and leadership will be expected of the students. Topics include Virtualization, Network Security, Cisco routing, Wireless networking, Network Monitoring tools, Computer Forensics and any other topics that would relate to the “real world” setups and management of a LAN, MAN, or WAN. **Prerequisite(s):** CNT 2110

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

CNT 2280 - Network Infrastructure Design

4 Credits
4 Class Hours

An introduction to Windows Network Infrastructure. Topics include networking services infrastructure design, domain, DHCP, Internet Protocol (IP) address configuration support, Open Shortest Path First (OSPF), Routing Information Protocol (RIP), and Internet Group Management Protocol (IGMP), and IP routing scheme. **Prerequisite(s):** CNT 2370

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

CNT 2350 - Install/Config Windows Server

4 Credits
4 Class Hours

Covers the core services of Windows server, such as Active Directory and networking services. Topics include Managing Active Directory Domain Services Objects, Automating Active Directory Domain Services Administration, Implementing Networking Services, Implementing Local Storage, Implementing File and Print Services, Implementing Group Policy, and Implementing Server Virtualization with Hyper-V. **Prerequisite(s):** CNT 1170

Semester Availability: Fall, Spring
CNT 2360 - Windows Active Directory

4 Credits
4 Class Hours

A study of Microsoft Windows Active Directory. Topics include administrative tasks required to centrally manage large numbers of users and computers, multiple domains, and active directory. **Prerequisite(s):** CNT 2350

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 2370 - Administering Windows Server

4 Credits
4 Class Hours

Covers Windows server services such as user and group management, network access, and data security. Topics include Implementing a Group Policy Infrastructure, Managing User and Service Accounts, Maintaining Active Directory Domain Services, Configuring and Troubleshooting DNS, Configuring and Troubleshooting Remote Access, Installing, Configuring, and Troubleshooting the Network Policy Server Role, Optimizing File Services, Increasing File System Security, and Implementing Update Management. **Prerequisite(s):** CNT 1170, CNT 2350

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 2410 - Cisco Routers III

4 Credits
4 Class Hours

Scaling Networks is the third of four courses leading to the Cisco Certified Network Associate (CCNA) designation. Focuses on Hierarchical Network Design, LAN Redundancy, Spanning Tree Protocol (STP), FHRP & HSRP redundancy protocols, Link redundancy with EtherChannel, Wireless LANs, Advanced Single-Area OSPF, Multi-Area OSPF, Cisco's dynamic routing protocol EIGRP, IOS Images and Licensing. Students will be required to apply information from both Cisco I and II to network situations. **Prerequisite(s):** CNT 1160

Semester Availability: Fall, Spring
CNT 2420 - Cisco Routers IV

4 Credits
4 Class Hours

Connecting Networks is the last of four courses leading to the Cisco Certified Network Associate (CCNA) designation. Topics include Hierarchical Network Design, WAN Technologies/Terminology/Devices, Point-to-Point Protocol (PPP), Frame Relay, Network Address Translation (NAT), Broadband solutions, Securing Site-to-Site connections with VPN/GRE/IPSec, and Network Management including NTP, SYSLOG, SNMP, and NetFlow. Students will be required to apply information from Cisco I, II, and III to network situations. Prerequisite(s): CNT 2410

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 2450 - Network Security

4 Credits
4 Class Hours

An introduction to network security concepts and application. Topics include securing a single computer, peer-to-peer networks, and worldwide client/server networks. Prerequisite(s): CNT 1170

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CNT 2470 - CNT Capstone

3 Credits
3 Class Hours

Course is taken during the final semester. A comprehensive review of concepts taught in the CNT program. A case study or project will be used in the application and reinforcement of principles. An exit exam will be administered as a means of assessing CNT program outcomes. Prerequisite(s): CNT 1160, CNT 2110, CNT 2370, CNT 2450, CPT 1510, CPT 2425

Semester Availability: Fall, Spring
COM 1000 - Beginning HTML

3 Credits
3 Class Hours

A beginning course in HTML that provides instruction in creating Web pages. Students learn to write HTML code by hand using a basic text editor. Topics include using HTML tags, CSS formatting, and Javascript. Prerequisite(s): Level 2 placement in English and Reading; basic computer and Web navigation skills.

Semester Availability: Fall, Spring

COM 1010 - Basic Web Design

3 Credits
3 Class Hours

Presents the principles for planning and designing attractive and informative Web pages and Web sites. Explores the factors that affect Web layout and design, such as browser choice, screen resolution, navigation, connection speed, typography, graphics, and color. Prerequisite(s): Level 2 placement in English and Reading; basic computer and Web navigation skills.

Semester Availability: Fall, Spring

COM 1020 - Basic Web Graphics

3 Credits
3 Class Hours

An introductory class using a graphics program, scanner, and other digital devices to create and edit graphic images for Web pages. Projects will be included to allow students to demonstrate mastery of the use of a graphics program. This course is taught using Photoshop®. Prerequisite(s): COM 1000 with a grade of "C" or higher.

Semester Availability: Spring
COM 1040 - Presentation Media

3 Credits
3 Class Hours

An introduction to the development of effective visual presentations and slide shows in the digital environment using Keynote® and other applications. Prerequisite(s): Level 2 placement in English and Reading; basic computer skills (see special requirements in program description).

Semester Availability: Spring

COM 1111 - Graphic Processes

3 Credits
2 Class Hours, 2 Lab Hours

Acquaints the beginning student with graphic art processes, techniques, and terminology. Topics in color, paper stock, production workflows, printing operations, safety, and bindery systems are presented. Projects acquaint students with the use of design tools and techniques. Prerequisite(s): Level 2 placement in English and Reading.

Semester Availability: Fall

COM 1120 - Business for Designers

(formerly COM 1120 - Visual Communications Business)

3 Credits
3 Class Hours

Explores the relevant ethical and legal implications of the normal activities and transactions in the visual communications workplace. Specific topics include organizational structures, careers, job sheets, timesheets, estimates, usage agreements, and copyright. Prerequisite(s): Level 2 placement in English and Reading.

Semester Availability: Fall
COM 1140 - Design Fundamentals

3 Credits  
3 Class Hours

Topics include the principles and elements of design, basic drawing and media techniques, and the design/creative processes for visual communications. **Prerequisite(s):** Level 2 placement in English and Reading. 

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

COM 1150 - Type Concepts

3 Credits  
3 Class Hours

Topics include typestyles, terminology, type specifications, measurement, and type as a design element for visual communications. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

COM 1170 - Imaging Technologies

3 Credits  
3 Class Hours

Introduces students to current industry standards of digital file preparation for reproduction. Topics include terminology, digital fonts, file formats, scanning, and desktop systems. **Prerequisite(s):** Level 2 placement in English and Reading; basic computer skills (see special requirements in program description)

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

COM 1190 - Basic Photography / Designers

(formerly Basic Digital Photography)  
3 Credits  
3 Class Hours
An introduction to basic digital photography, focusing on skills useful for a graphic designer. Topics include basic operation of a digital camera, composition, camera controls, exposure, and basic image enhancement for creative use. An advanced digital point and shoot or digital SLR camera is required.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**COM 1230 - Digital Imaging I**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to basic digital imaging using Adobe Photoshop®. Topics include navigation of the interface, the tools, using layers, adjustment layers, layer styles, filters, creating and manipulating selections, masking principles, cropping, image size and resolution, and image compositing of raster images. **Prerequisite(s):** Basic computer skills (see special requirements in program description)

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**COM 1300 - Site Building - Dreamweaver®**

(formerly COM 1300 - Site Building I - Dreamweaver®)
3 Credits
3 Class Hours

An introduction to Adobe Dreamweaver® software as a tool for the construction and maintenance of Web sites. **Prerequisite(s):** COM 1000 with a grade of "C" or higher.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**COM 1305 - Multimedia Flash®**

3 Credits
3 Class Hours

An introduction to the production of interactive multimedia using Adobe Flash® software. Topics include the programmatic integration of still and animated graphics, text, audio, video, and interface design. **Prerequisite(s):** COM 1000, COM 1170 with a grade of "C" or higher in all listed prerequisites.
COM 1500 - WordPress®

3 Credits
3 Class Hours

An introduction to using WordPress® as a Content Management System (CMS). Topics include hosting options, installation, configuration, customization, content creation and management. **Prerequisite(s):** Level 2 placement in English and Reading; basic computer skills.

Semester Availability: Fall
Not part of a Tennessee Transfer Pathway

COM 2010 - Digital Video I

3 Credits
3 Class Hours

An introduction to digital video production techniques using Final Cut Pro® software. Topics include video capture, and basic sound, lighting, and digital editing. **Prerequisite(s):** Basic computer skills (see special requirements in program description)

Semester Availability: Fall
Not part of a Tennessee Transfer Pathway

COM 2020 - Multimedia Design

3 Credits
3 Class Hours

A course in the development of thumbnails, storyboards, scripts, and other conceptual presentation processes used in multimedia pre-production. **Prerequisite(s):** ENGL 1010

Semester Availability: Spring
Not part of a Tennessee Transfer Pathway
**COM 2030 - Digital Video II**

3 Credits  
3 Class Hours

A continuation of digital video techniques for post-production using Final Cut Pro® software. Emphasis on video editing strategies for effective storytelling. **Prerequisite(s):** COM 2010 with a grade of "C" or higher.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**COM 2120 - Electronic Publishing I**

3 Credits  
3 Class Hours

An introduction to page layout software using Adobe InDesign®. Topics include page set-up, the use of text boxes, manipulation of text using basic typographic etiquette, and the use of picture boxes in a variety of print documents. **Prerequisite(s):** Basic computer skills (See special requirements in program description.)

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2130 - Electronic Publishing II**

3 Credits  
3 Class Hours

A continuation of COM 2120. Topics include the use of style sheets and master pages, manipulation of text and images, and production of various print materials including a newsletter. **Prerequisite(s):** COM 2120 with a grade of "C" or higher.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2140 - Design for Print**

(Formerly COM 1220 Graphic Design II)  
3 Credits  
2 Class Hours, 2 Lab Hours
Topics include the creative aspects of the design and production of applied art for visual communications, stressing the importance of concept, type, and graphics in practical project applications. **Prerequisite(s):** COM 1111, COM 1140, COM 1150, COM 1170, COM 1230, COM 2120 and COM 2210 with a grade of "C" or higher in all listed prerequisites. **Note:** Students who have already completed COM 1220 should not enroll in COM 2140.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2170 - Portfolio / Graphic Design**

(formerly Portfolio)
3 Credits
2 Class Hours, 2 Lab Hours

Topics include portfolio preparation, résumé development, job interview skills, and portfolio review by industry professionals. **Prerequisite(s):** COM 1170, COM 1230, COM 2130, COM 2140 and COM 2210 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**COM 2210 - Electronic Illustration I**

3 Credits
3 Class Hours

An introduction to executing vector-based illustrations using Adobe Illustrator®. Topics include navigation of the interface, the tools, drawing and manipulating basic objects, creating and manipulating type, drawing with the pen tool, applying color, using layers, and transformation and pathfinder techniques. **Prerequisite(s):** Basic computer skills (See special requirements in program description.)

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**COM 2220 - Practicum / Graphic Design**

(formerly Practicum)
3 Credits
2 Class Hours, 2 Lab Hours
Topics include the design and execution of a variety of electronic publishing projects utilizing graphic design, computer-based drawing, digital imaging techniques, working with a client, and job-based work production skills. **Prerequisite(s):** COM 1170, COM 1230, COM 2130, COM 2140 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**COM 2240 - Digital Imaging II-Photography**

3 Credits
3 Class Hours

A continuation of COM 1230 using Adobe Photoshop®. Topics include manipulation of photographic images in a digital format, digital asset management, digital workflow, cropping, tone and color correction, selection techniques, masking, colorization, image enhancement, and sharpening techniques. **Prerequisite(s):** COM 1230 with a grade of "C" or higher or program permission

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2250 - Digital Imaging II-Design**

3 Credits
3 Class Hours

A continuation of COM 1230 using Adobe Photoshop®. Topics include drawing with shape layers, creating custom brushes and patterns, advanced selecting and masking techniques, and learning and utilizing photographic and illustrative techniques to execute projects appropriate for the graphic design industry. **Prerequisite(s):** COM 1230 with a grade of "C" or higher or program permission

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2270 - Electronic Illustration II**

3 Credits
3 Class Hours

A continuation of COM 2210 using Adobe Illustrator®. Topics include logo re-creation, perspective and dimensional techniques, creating custom brushes, patterns, fills, the execution of complex vector objects, and the execution of a variety of design projects utilizing these techniques. **Prerequisite(s):**
COM 2210 with a grade of "C" or higher or program permission

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**COM 2280 - Illustration with Painter® I**

3 Credits
3 Class Hours

An introduction to digital illustration and painting techniques using Corel Painter®. Topics include navigation of the interface, the tools, using brushes, layers, different styles of illustration, and turning photographs into art. **Prerequisite(s):** COM 1230 with a grade of "C" or higher.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2480 - Illustration with Painter® II**

3 Credits
3 Class Hours

A continuation of COM 2280 Illustration with Painter® I. Students continue developing their expertise and mastery of techniques using Corel Painter. Emphasis will be placed on developing an artistic style. **Prerequisite(s):** COM 2280 with a grade of "C" or higher.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**COM 2700 - Practicum/Multimedia & Web**

(formerly Multimedia/Web Design Capstone)
3 Credits
3 Class Hours

Provides opportunities to apply and incorporate skills learned from preceding courses to a final project. Emphasis is on problem-solving and professional standards. **Prerequisite(s):** Instructor permission

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
CPT 1010 - User Support/Help Desk

3 Credits
3 Class Hours

An introduction to the role of computer technology in support of business processes and procedures. Concepts include computer user support, customer service skills, troubleshooting skills, common support problems, help desk operation and management, common help desk tools and procedures, and basic hardware and software installation and maintenance. Prerequisite(s): Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CPT 1430 - Data Storage

3 Credits
2 Class Hours, 2 Lab Hours

An examination of storage-attached network devices through enterprise-level SAN systems. Topics include virtualization concepts, and fiber optics and twisted-pair cabling used to connect devices to a network. Prerequisite(s): Level 2 placement in Reading.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

CPT 1510 - A+ IT Essentials

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to basics of computer hardware in today's technical society. Topics include identification and installation of internal components, disk configuration, ports, cables, peripherals and networking concepts and connections. Hands-on and demonstrations allow technicians to delve into building, repairing and preventive maintenance. Prerequisite(s): Level 2 placement in Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CPT 1530 - Mobile Computing
3 Credits  
2 Class Hours, 2 Lab Hours  

Designed to prepare students to assist with common issues that may arise with mobile devices in an IT support environment. The course will allow students to develop the skills to support smartphones and accompanying desktop software. **Prerequisite(s):** CPT 1510  

Semester Availability: Spring  
Not part of a Tennessee Transfer Pathway  

**CPT 2425 - UNIX/Linux**  

4 Credits  
4 Class Hours  

Integrates practical skills within the Linux environment. Analysis of open source software creates proficiency with utilities, applications and file system manipulation in both command line and graphical X Window environments. Technicians will utilize varied shells, design, compose and edit script files relating to startup configuration, and perform administrative tasks such as process management, partition monitoring, command scheduling, permission assignment and user/group modification.  

Semester Availability: Fall, Spring, Summer  
Not part of a Tennessee Transfer Pathway  

**CPT 2430 - Systems Troubleshooting**  

4 Credits  
4 Class Hours  

Elevates computer system skills in areas of error detection, issue identification, technical research, solution development, and problem resolution. Develop an authentic perspective as an industry professional, interviews, simulations, checklists, community contacts, on-site visits and other interactions often occur to supplement class labs and group discussions. **Prerequisite(s):** CPT 1510  

Semester Availability: Fall, Spring  
Not part of a Tennessee Transfer Pathway  

**CPT 2480 - Tactical Perimeter Defense**
3 Credits  
3 Class Hours  

An examination of how software and hardware can be used to provide a perimeter of defense in protecting resources, and how security is addressed in both wireless and wired networks. Topics include the use of tools such as wireless access points, proxy servers, VPN's, auditing, intrusion detection systems and firewalls. Prepares students to take Tactical Perimeter Defense exam for the Security Certified Network Specialist (SCNS) certification. **Prerequisite(s):** CPT 2425  

Semester Availability: Fall  
Not part of a Tennessee Transfer Pathway  

**CPT 2490 - Infrastructure Security**  

3 Credits  
3 Class Hours  

An examination of security from an internal perspective. Focuses on infrastructure security policies, patching, upgrading systems, cryptography, and hardening operating systems. Prepares students to take the Strategic Infrastructure Security exam for the Security Certified Network Professional (SCNP) certification. **Prerequisite(s):** CPT 2425  

Semester Availability: Spring  
Not part of a Tennessee Transfer Pathway  

**CPT 2530 - Computer Forensics**  

3 Credits  
2 Class Hours, 2 Lab Hours  

Provides entry-level forensics knowledge used to recover lost or corrupt data, and to preserve data for internal or external investigations. Topics include tools used to recover lost data from mobile devices, and hands-on work with a variety of operating systems including DOS, Windows, Macintosh and Linux. **Prerequisite(s):** Level 2 placement in English and Reading.  

Semester Availability: Spring  
Not part of a Tennessee Transfer Pathway  

**CPT 2540 - CPT Capstone**
Course is taken during the final semester. A comprehensive review of concepts taught in the CPT program. A case study or project will be used in the application and reinforcement of principles. An exit exam will be administered as a means of assessing CPT program outcomes. **Prerequisite(s):** Instructor Permit Only

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 1010 - Intro to Criminal Justice**

(Formerly PST 1000)

3 Credits
3 Class Hours

A study of the administration of criminal justice and its purposes, goals, and functions. Topics include evaluation of law enforcement responsibilities, techniques, and methods of how police patrol is conducted. Provides a basic understanding of the criminal justice components, including history of law enforcement; DUI enforcement; officer survival; police corruption; sects, cults, and deviant movements; police administration; firearms; and defensive tactics. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: All

**CRMJ 1020 - Intro to the Legal Process**

3 Credits
3 Class Hours

This course is designed to introduce students to the United States laws and legal system. The student will become familiar with specific areas of the law as well as with different approaches to judicial decision making within the legal system. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Spring

**CRMJ 1022 - Police Administration**

(Formerly PST 1020)

3 Credits
3 Class Hours
A study of the principles of personnel management functions and organization of the police agency. Topics include policy procedures, evaluation of the research, planning, and development processes, and operational duties and commands.

Semester Availability: Spring, Summer

Not part of a Tennessee Transfer Pathway

**CRMJ 1040 - Criminal Investigation**

(Formerly PST 2010 and CRMJ 2012)
3 Credits
3 Class Hours

A study of the fundamentals of criminal investigation including crime scene search and recording; collection and preservation of evidence; a survey of related forensic science; interviews and interrogations; and methods of surveillance. Emphasizes the techniques of case preparation and presenting the case to court.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 1041 - Defensive Tactics**

(Formerly PST 1040 and CRMJ 1040)
3 Credits
3 Class Hours

An introduction to basic police defensive tactics system through physical practice of uncomplicated movements and control of distance. Basic defensive tactics include hand and foot strikes, pressure points, control tactics, impact weapons, handcuffing techniques and use-of-force plans to include various policies on deadly force. Studies mental conditioning for survival and use-of-force continuum.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 1043 - Investigative Photography**

(Formerly PST 1043)
3 Credits
3 Class Hours

A study of the basic concepts of photography through an understanding of aperture, shutter speed, and film speed. Emphasizes principles of the 35 mm camera and digital cameras and their application of recording and reconstructing crime scenes. Also prepares the student for the Evidence Photography that takes photography into the laboratory. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CRMJ 1050 - Tactical Shotgun**

(Formerly PST 1050)
3 Credits
3 Class Hours

A study of operating skills for "tactical response shotgun." Special emphasis on safety, gun handling, ammo selection, position shooting, marksmanship, and tactical movement. Upon completion, the student will be able to explain and demonstrate the safe and proper use of the "tactical shotgun" and have a working knowledge of weapon function, ammunition selection, shotgun wounding characteristics, various applied shotgun techniques, and basic mechanical troubleshooting for the shotgun.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CRMJ 1060 - Basic Surveillance Techniques**

(Formerly PST 1060)
3 Credits
3 Class Hours

An examination of basic police surveillance and counter-surveillance procedures and methods including foot and vehicle; one-, two- and three-person or ABC surveillance; aerial platform; and electronic and stationary surveillance operations. Topics include definition and history of surveillance, four basic methods of surveillance, foot surveillance operations, vehicle surveillance procedures, stationary surveillance methods, aerial platform surveillance, counter-surveillance operations, detecting and eluding surveillance operatives, and presentation of surveillance evidence in court.

Semester Availability: Upon Request
CRMJ 1070 - Officer Survival

(Formerly PST 1070)
3 Credits
3 Class Hours

A study of the basics of police work needed to survive both mentally and physically. Topics include basic officer survival tactics and techniques, proper survival techniques used during field interviews, unknown risk calls, and traffic stops. Provides a working knowledge of survival skills used during domestic calls, crimes in progress, and high-risk traffic stops.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

CRMJ 1080 - Interv/Interrog Techniques

(Formerly PST 1080)
3 Credits
3 Class Hours

A study of the techniques utilized in interviewing victims, witnesses, and subjects of interrogations. Topics include preparation and strategy, legal aspects, interpretation of verbal and physical behavior, causes of denial, interviewing, establishing credibility, reducing resistance, obtaining the admission, and the use of video equipment.

Semester Availability: Fall, Summer

Not part of a Tennessee Transfer Pathway

CRMJ 1085 - Basic Fingerprint/Pattern ID

(Formerly PST 1085)
3 Credits
3 Class Hours

A study of ridge pattern identification and the physical aspects of fingerprints. Provides the basis for developing techniques for the taking of presentable and classifiable inked impressions. Emphasizes hands-on application of these techniques.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
CRMJ 1086 - Latent Fingerprint Development

(Formerly PST 1086)
3 Credits
3 Class Hours

A study of the fundamentals of fingerprint development from the history of fingerprints to the most advanced techniques of modern day technology. Other topics include the use of Automated Fingerprint Identification System (AFIS). Prerequisite(s): Level 2 placement in English and Reading.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

CRMJ 1087 - Basic Crime Scene Investigation

(Formerly PST 1087)
3 Credits
3 Class Hours

A study of the principles of crime scene investigation. Topics include scene assessment, photography, diagramming, evidence collection, processing of evidence, crime scene preservation, and the presentation of the evidence into a court of law. Prerequisite(s): Level 2 placement in English and Reading.

Semester Availability: Summer

Not part of a Tennessee Transfer Pathway

CRMJ 1090 - Traffic Accident Investigation

(Formerly PST 1090)
3 Credits
3 Class Hours

A study of traffic collisions using scientific methods of vehicle speed calculation, timed distance speed, report writing, and diagramming. Explores the legal, statistical, and professional aspects of this interesting field. Includes dynamic vehicle experiments and practical exercises in gathering facts for traffic investigators.

Semester Availability: Fall, Spring
CRMJ 1091 - Advanced Traffic Investigation

(Formerly PST 1091)
3 Credits
3 Class Hours

This course studies the police function as it pertains to the task of traffic accident investigation using advanced techniques. The course will cover kinetic energy speed evaluation, vehicle dynamics, airborne speed evaluation, vehicle damage profiles, momentum and vector analysis speed evaluation, photography, human factors, tire and lamp analysis.

Semester Availability: Upon Request

CRMJ 1095 - Tactical Talk

(Formerly PST 1095)
3 Credits
3 Class Hours

An interpersonal communications course for police officers. Provides officers the necessary tools to diffuse verbal confrontations as well as persuade contacts to obey legal and lawful orders. Topics include the goals, objectives, and visions of law enforcement and field interviewing techniques and neurolinguistics.

Semester Availability: Spring

CRMJ 1097 - Surface Skel & Buried Bodies

(Formerly PST 1097)
3 Credits
3 Class Hours

A study of techniques in locating clandestine bodies and graves. Topics include visual search indicators of burials, disturbances in nature, soil compaction, soil gas detection, cadaver dogs, and scavenging patterns. Also includes many hands-on exercises. Prerequisite[s]: Level 2 placement in English and Reading: CRMJ 1087.
Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 1110 - Criminal Law**

(Formerly PST 1010 and CRMJ 1012 Criminal Law & Procedure)
3 Credits
3 Class Hours

A study of trial procedures, history of constitutional rights, rules of evidence admissibility, types of evidence, and laws of arrest, search, and seizure.

Semester Availability: Fall, Spring

**CRMJ 1130 - Criminal Evidence & Procedure**

(Formerly PST 1030 and CRMJ 1030 Criminal Evidence)
3 Credits
3 Class Hours

A study of the types, proper treatment, and disposition of criminal evidence. Examines the problems of admissibility in court proceedings. Other topics include types of evidence, rules for obtaining the evidence, principles of exclusion, evaluation and examination of the evidence, proof, competence of witnesses, hearsay rule, opinion, pre-trial discovery, and testimony in court.

Semester Availability: Fall

**CRMJ 2000 - Criminology**

(Formerly PST 1005 and CRMJ 1005 Intro To Criminology)
3 Credits
3 Class Hours

A study of societal problems including deviant behavior, its causes, patterns, treatment, and prevention.

Semester Availability: Fall, Spring

**CRMJ 2010 - Introduction to Law Enforcement**

3 Credits
3 Class Hours

An introduction to the law enforcement segment of the criminal justice system with an examination of
the history and development of law enforcement, especially in the United States. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall

**CRMJ 2014 - Advanced Crime Scene Techn**

(Formerly PST 2014)
3 Credits
3 Class Hours

A study of crime scene techniques that takes the student beyond the classroom and into the field. Students will work mock crime scenes and apply all the skills acquired from previous studies. Simulates reality for the students and requires the student to photograph, diagram, and preserve crime scene evidence. Other topics include casting techniques and blood presumptive applications. **Prerequisite(s):** Level 2 placement in English and Reading; CRMJ 1086 and CRMJ 1087.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CRMJ 2020 - Introduction to Corrections**

3 Credits
3 Class Hours

Examines the concept of punishment and its form, functions, and enforcement throughout history. Emphasizes the operation, structure, clientele, and issues confronting the institutions, agencies, and programs encompassing the corrections system including jails, prisons, and probation and parole. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Spring

**CRMJ 2022 - Police Firearms**

(Formerly PST 2020)
3 Credits
3 Class Hours

An introduction to police combat firearms training, firearms tactics, deadly force policies and shoot/don’t shoot decisions. Emphasizes practical, safe operation and firing of handguns. Students learn how to safely operate and fire a handgun and make use-of-force decisions in firearms. Students must furnish weapons and ammunition.
CRMJ 2023 - Advanced Fingerprint Techn

(Formerly PST 2023)
3 Credits
3 Class Hours

A study of the comprehensive application of development of enhancement techniques for physical evidence using forensic chemicals to develop latent fingerprints from crime scene evidence. Utilizes a forensic laboratory using ninhydrin, cyanoacrylate, chemical powders, and many other forensic chemicals. Prerequisite(s): Completion of all competencies in Learning Support reading and writing; CRMJ 1086.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

CRMJ 2030 - Drug Identification & Effects

(Formerly PST 2000 and CRMJ 2000)
3 Credits
3 Class Hours

A study of the fundamentals needed for identifying both the appearance and effects of controlled substances. Students receive guides to controlled substances: their color, trade names, and drug codes. Topics include a critical examination of the physiological, sociological, psychological, and legal aspects of drug abuse and many complexities that have developed as a direct or indirect result of their abuse in society.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CRMJ 2031 - Seminar in CSI

(Formerly PST 2031)
3 Credits
3 Class Hours

An opportunity for the CSI student to study the role of the crime scene technician in the crime lab work
setting. Includes off campus experiences involving supervised activities within local police departments, field site visits, and extensive research activities. **Prerequisite(s):** Completion of all competencies in Learning Support reading and writing; CRMJ 1086, CRMJ 1087, CRMJ 2014, CRMJ 2023.

Semester Availability: Upon Request

Not part of a Tennessee Transfer Pathway

**CRMJ 2032 - Seminar In Police Science**

(Formerly PST 2030 and CRMJ 2030)
3 Credits
3 Class Hours

An opportunity for Police Science students to study the role of law enforcement and corrections in a seminar setting. Also includes off-campus experiences involving supervised field activities, field site visits, and extensive research activities.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 2040 - Investigative Report Writing**

(Formerly PST 1035 and CRMJ 1035 Report Writ for Law Enforce)
3 Credits
3 Class Hours

A study of the objectives of effective police report preparation as it specifically pertains to law enforcement. Emphasizes how to present information in an organized, clear and chronological manner. Topics include the three categories of law enforcement documents: incident, administrative, and affidavit. **Prerequisite(s):** Completion of all competencies in Learning Support reading and writing.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 2045 - Intro To Criminalistics**

(Formerly PST 2045)
3 Credits
3 Class Hours

A study of the scientific evaluation of physical evidence in the crime lab; firearms examination,
comparative micrography, toxicology, serology, polygraph, and microanalysis of hair, fiber, paint, and glass; and legal photography applications.

Semester Availability: Upon Request

Not part of a Tennessee Transfer Pathway

**CRMJ 2050 - Introduction to Cyber Security**

(Formerly PST 1055 and CRMJ 1055 Intro to Computer Crime)
3 Credits
3 Class Hours

Provides an overview of criminal acts that can be committed with the use of a computer and the Internet, how computer related crimes are committed, and how computer related crimes are investigated. The legal issues involved in the prosecution of computer related crimes will also be explored.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CRMJ 2053 - Police Tact Training (SWAT)**

(Formerly PST 2050 and CRMJ 2050)
3 Credits
3 Class Hours

An overview of the historical development of special weapons and tactical teams. Studies the techniques of urban and rural movements, breaching techniques and forced entry methods. Methods of surreptitious and dynamic entry and clearing and hostage rescue are practiced with tactical diagramming and aid planning.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 2055 - Gangs Cults & Deviant Movement**

(Formerly PST 2055)
3 Credits
3 Class Hours
An examination of gang problems in the United States. Topics include precepts and current philosophies of Paganism, Neo-Paganism, Witchcraft, Satanism, Santeria, and Brujeria. Examines ceremonial and magical rituals, signs, symbols, secret alphabets, ritualized abuse, and Cult-Occult crime investigation. Explores psychological and sociological effects of media on adolescents.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**CRMJ 2060 - Evidence Photography**

(Formerly PST 2060)
3 Credits
3 Class Hours

A study of the photographic aspects used in criminal investigation with emphasis on types of cameras and lighting for purpose of recording evidence.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 2064 - Bloodstain Evidence**

(Formerly PST 2064)
3 Credits
3 Class Hours

A study of bloodstains, bloodspatter, and bloodstain pattern. Focuses on surface texture, direction of travel of blood striking an object, determining the impact angle of blood, the origin of bloodspatter, and an examination of a blood drop in a two-dimensional configuration. Other topics include the collection and preservation of bloodstain evidence. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 2065 - Prevention & Control Of Crime**

(Formerly PST 2065)
3 Credits
3 Class Hours
A study of the police function as it pertains to the analysis of crime prevention and control. Addresses the major problems and needs of police agencies to fulfill their roles within the criminal justice system.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CRMJ 2070 - Business & Industrial Security**

(Formerly PST 2070)
3 Credits
3 Class Hours

A study of the functions and concepts of security personnel forces of industrial plants, airports, hospitals, and commercial stores.

Semester Availability: Upon Request

Not part of a Tennessee Transfer Pathway

**CRMJ 2110 - Juvenile Justice**

(Formerly PST 2035 and CRMJ 2035 Juvenile Procedures)
3 Credits
3 Class Hours

An introduction to the concepts of youth crimes and techniques practiced by police and courts in prevention and control. Topics include the development and trends in juvenile court procedures.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CSPT 1001 - Intro to Central Processing**

4 Credits
3 Class Hours, 3 Lab Hours

An introduction to principles, techniques and issues in the surgical and central service environment. Topics include patient care concepts, equipment and instrumentation, job responsibilities, sterile technique, professional management and self-management. CSPT 1001 concepts are reinforced by exercises in CSPT 1002. **Prerequisite(s):** Program application, interview and instructor permission,
completed health and program documentation including background check and drug screening. **Corequisite(s):** CSPT 1002, BIOL 1000, BIOL 1004, SURG 1005

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CSPT 1002 - Central Processing Skills Lab**

1 Credit
3 Lab Hours

A study of Sterile Technique and basic techniques necessary to function as a Central Processing Technician in the surgical central service environment. Topics include principles of sterile technique, cleaning, assembly, and testing of equipment, wrapping and packaging techniques, inspecting and folding of linens, assembling instrument/procedure trays, operating sterilization equipment, storage of clean and sterile supplies, preparing case carts, pulling for cases, distributing supplies, and inventory control. CSPT 1001 provides rationale and concepts to support exercises in this course. **Prerequisite(s):** Program application, interview and instructor permission, completed health and program documentation including background check and drug screening. **Corequisite(s):** CSPT 1001, BIOL 1000, BIOL 1004, SURG 1005

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CSPT 1010 - Central Processing Capstone**

3 Credits
3 Class Hours

An overview of the surgical and central service environment, clinical management and documentation skills, and CRCST certification exam preparation. CSPT 1010 concepts are reinforced by experiences in CSPT 1011 and CSPT 1012. **Prerequisite(s):** Program application, interview and instructor permission, completed health and program documentation including background check and drug screening. Also BIOL 1000, BIOL 1004, SURG 1005, CSPT 1001, and CSPT 1002. **Corequisite(s):** CSPT 1011 and CSPT 1012

Semester Availability: Summer

Not part of a Tennessee Transfer Pathway

**CSPT 1011 - Central Processing Practicum I**
5 Credits
5 Lab Hours

Course consists of one five-week supervised clinical rotation during which students will complete comprehensive orientation to clinical practica, practice the skills necessary to perform the duties of a central processing technician, develop professional behaviors while in the surgical and central service environment, and learn to adequately document their experiences in their Practica. CSPT 1010 provides rationale and concepts to support experiences in this course. **Prerequisite(s):** Program application, interview and instructor permission, completed health and program documentation including background check. Also BIOL 1000, BIOL 1004, SURG 1005, CSPT 1001, and CSPT 1002. **Corequisite(s):** CSPT 1010 and CSPT 1012

**Semester Availability:** Summer

Not part of a Tennessee Transfer Pathway

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**CSPT 1012 - Central Processing Practicum II**

4 Credits
4 Lab Hours

Course consists of one five-week supervised clinical rotation during which students will complete orientation to a second clinical site, practice the skills necessary to perform the duties of a central processing technician, develop professional behaviors while in the surgical and central service environment, and adequately document their experiences in their Practica. CSPT 1010 provides rationale and concepts to support experiences in this course. **Prerequisite(s):** Program application, interview and instructor permission, completed health and program documentation including background check. Also BIOL 1000, BIOL 1004, SURG 1005, CSPT 1001, and CSPT 1002. **Corequisite(s):** CSPT 1010 and CSPT 1011

**Semester Availability:** Summer

Not part of a Tennessee Transfer Pathway

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**CULA 2300 - Food and Beverage Management**

3 Credits
3 Class Hours

This course covers restaurant and food service operations, including facilities capabilities, personnel management, and daily operations, sanitation, and facilities readiness. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation.

**Semester Availability:** Fall, Spring

Not part of a Tennessee Transfer Pathway
CULA 1200 - Sanitation and Food Safety
2 Credits
2 Class Hours

This primer course is designed to educate all students to the sacred trust between food production facilities and the general public. It should prepare each student to successfully complete the National Restaurant Association’s ServSafe or any similar certificate. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CULA 1310 – Fundamentals of Baking

3 Credits
1 Class Hour, 4 Lab Hours

Fundamentals of baking is an introduction to the basic principle of baking including formula procedures, properties of baking ingredients, and functions and proper use of bakery equipment. Students will present yeast breads and rolls, pies, cakes, icings, basic pastry dough, and cookies using proper mixing methods and ingredients. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation. **Co-requisite(s):** CULA 1320.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CULA 1320 - Culinary I (Fundamentals)

3 Credits
2 Class Hours, 2 Lab Hours

The introductory food production class for culinary students. Topics include the theories and methods of cooking, vocabulary, and the development of safe and sanitary kitchen practices. Production items will include vegetable and starch preparation, stocks and soups, and egg cookery. This is the introductory food production class for culinary students. Topics include the theories and methods of cooking, vocabulary, and the development of safe and sanitary kitchen practices. Production items will include vegetable and starch preparation, stocks, sauces and soups, poultry and egg cookery. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation. **Co-requisite(s):** CULA 1200

Semester Availability: Fall, Spring
CULA 1325 - Culinary II (Fabrication)

3 Credits
1 Class Hour, 4 Lab Hours

This course will introduce the principles of identifying, receiving, fabricating, and storing vegetables, fruits, herbs, nuts, grains, dry goods, prepared goods, dairy products, spices. Students will then explore the subject of meats, poultry, seafood and their application in foodservice operations. A grade of “C” or above in all Culinary Arts courses must be earned prior to graduation. **Prerequisite(s):** CULA 1320 with a grade of "C" or higher.

Semester Availability: Spring, Summer

Not part of a Tennessee Transfer Pathway

CULA 1305 - Nutrition for Culinary Arts

3 Credits
3 Class Hours

This is an introduction to the basic nutritional principles and guidelines. Topics include nutrients, carbohydrates, lipids, proteins, minerals and vitamins Students plan meals and menus based on the above principles using nutritional guidelines as the primary basis. A grade of “C” or above in all Culinary Arts courses must be earned prior to graduation.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

CULA 2375 - Purchasing and Cost Control

3 Credits
3 Class Hours

This course is intended to provide the student with the methodologies and tools to control food, beverage, labor and other costs within a hospitality business. Hospitality purchasing principles are also explored. This course regularly uses basic mathematics. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway
CULA 1321 - Advanced Baking and Pastry

3 Credits
1 Class Hour, 4 Lab Hours

Baking skills are polished as students learn more difficult baking, pastry and dessert techniques. Emphasis is placed on presentation, plating and appearance. The production of high skill, high quality finished products is emphasized with special attention to chocolate work, plate presentation, and cold and hot preparations. Soufflés, dessert sauces and creative and flavorful designs exemplify this course. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation. **Prerequisite(s):** CULA 1310 with a grade of "C" or higher.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

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CULA 1330 - Garde Manger

3 Credits
1 Class Hour, 4 Lab Hours

This course provides students with skills and knowledge of the organization, equipment and responsibilities of the "cold kitchen". Students are introduced to and prepare cold hors d'oeuvres, sandwiches, salads, as well as basic charcuterie items while focusing on the total utilization of product. Reception foods and buffet arrangements are introduced. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation. **Co- or prerequisite(s):** CULA 1325 with a grade of "C" or higher.

Semester Availability: Fall, Summer

Not part of a Tennessee Transfer Pathway

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CULA 1240 - Dining Room Service

2 Credits
2 Class Hours

An exploration of table service principles and skills with an emphasis on customer service in a restaurant. The focus will be placed on guest relations, professional communications, order-taking in an à la carte environment, service sequence, point-of-sale systems, cash handling, beginning merchandising, table skills, and dining room preparation. Students will study and engage in critical-thinking topics that are relevant to providing high-quality formal table service and customer service. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation.

Semester Availability: Spring
Not part of a Tennessee Transfer Pathway

**CULA 2390 - Culinary Capstone (Final Production)**

3 Credits  
1 Class Hour, 4 Lab Hours

A capstone course required for all culinary majors. Topics include recipe development, menu construction, and pricing. Demonstration of proficiency in proper cooking method selection and construction of salads, entrées with appropriate side items, and desserts is required for successful completion of CULA 2390. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation. Prerequisite(s): CULA 1320, CULA 1325, CULA 1310, CULA 1321, CULA 1330 and CULA 2376 with a grade of "C" or higher.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**CULA 2376 - International Food**

3 Credits  
1 Class Hour, 4 Lab Hours

International Foods will expose students to some of the diversity of culture and foods of many countries around the world including regions of the United States. Classroom assignments, cooking demonstrations, guest speakers, and cooking labs will allow students to have a taste of the world. A grade of “C” or above in all Culinary Arts courses must be earned prior to graduation. Prerequisite(s): CULA 1325 with a grade of "C" or higher.

Semester Availability: Fall, Summer

Not part of a Tennessee Transfer Pathway

**CULA 2180 – Culinary Internship I**

1 Credit  
300 Contact Hours

This course is a supervised work experience in the culinary field requiring a minimum number of work hours. Work activities can range from entry-level to professional cooking. Individual conferences with the intern director are arranged instead of class attendance. A grade of "C" or above in all Culinary Arts courses must be earned prior to graduation. Prerequisite(s): CULA 1320 with a grade of "C" or higher.

Semester Availability: All
CULA 2280 – Culinary Internship II

1 Credit
300 Contact Hours

This course is a supervised work experience in the culinary field requiring a minimum number of work hours. Work activities can range from entry-level to professional cooking. Individual conferences with the intern director are arranged instead of class attendance. A grade of “C” or above in all Culinary Arts courses must be earned prior to graduation. **Prerequisite(s):** CULA 2180 with a grade of "C" or higher.

Semester Availability: All

ECED 1310 - Intro to Early Childhood Educ

(Formerly ECED 1010)
3 Credits
3 Class Hours

An introduction to the early childhood profession, including an emphasis on professionalism and developmentally appropriate practice. Topics include an overview of history of early education; theoretical program models; different types of early childhood programs, community resources; professional organizations, and contemporary trends and issues in programs for children ages birth through eight. Field experiences required.

Semester Availability: Fall, Spring
**ECED 2186 - Spec Topics in Early Childhood**

(Formerly ECED 2001)

1 Credit

A study of programs, trends, and issues in the field of early childhood education.

Semester Availability: Upon Special Request

Not part of a Tennessee Transfer Pathway

**ECED 2286 - Spec Topics in Early Childhood**

(Formerly ECED 2002)

2 Credits

A study of programs, trends, and issues in the field of early childhood education.

Semester Availability: Upon Special Request

Not part of a Tennessee Transfer Pathway

**ECED 2310 - Safe, Healthy, Learning Env**

(Formerly ECED 2010)

3 Credits

3 Class Hours

A study of the basic principles and practices of safety, health and nutrition as they relate to the early childhood setting, home, and community for children ages birth through eight. Topics include a study of the principles of creating appropriate learning environments for young children. Field experiences required.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ECED 2312 - Admin of ECE Programs**

(Formerly ECED 2120 - Admin of Child Care Centers)

3 Credits

3 Class Hours

A study of organizational and administrative practices applicable to programs serving children ages birth through eight. Topics include leadership, enrollment, public relations, staff-management, financial management, facilities, regulations, family relations, and program development. Field experiences required. **Prerequisite(s):** ECED 2315 or department approval
ECED 2315 - Early Childhood Curriculum
(Formerly ECED 2015)
3 Credits
3 Class Hours

A study of developmentally appropriate practices and the teacher's role in supporting development of young children ages birth through eight. Emphasizes curriculum planning including goals, environment, roles of teachers and of families, materials, and settings. Field experiences required.

Semester Availability: Fall, Spring
Not part of a Tennessee Transfer Pathway

ECED 2320 - Infant, Toddler, Child Dev
(Formerly ECED 2020)
3 Credits
3 Class Hours

A study of the physical, cognitive, social, and emotional aspects of young children and their application to the care, guidance, and development of the child, birth through eight. Field experience is required.
Prerequisite(s): English: Level 2 placement, Reading: Level 2 placement.
Semester Availability: Fall, Spring

ECED 2330 - Infant and Toddler Care
(Formerly ECED 2030)
3 Credits
3 Class Hours

A study of the care and education of infants and toddlers ages birth to age three in group settings (i.e. child care centers, family child care homes, Early Head Start, etc.). Topics include rationales and strategies for supporting the whole child including cognitive, language, social-emotional, and physical development in a safe, responsive environment. Emphasizes relationship-based care and education with special attention to the unique environmental aspects of programs for the child under three.
Prerequisite(s): None
Semester Availability: Fall
**ECED 2335 - Initial Practicum**

(Formerly ECED 2130)
3 Credits
2 Class Hours, 1 Lab Hour

A supervised practicum which includes a minimum of 30 clock hours in instruction and 45 clock hours in a clinical site approved by the Department (accredited agency, 3-Star, or Department-approved site). These hours may be completed in the student's employment site with Department approval. Course includes a study of the physical and human qualities that combine to create an environment that is safe and healthy and that promotes optimum learning for young children ages birth through eight.  
**Prerequisite(s):** ECED 2310 or department approval

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ECED 2340 - Fam Dynamics & Comm Involve**

(Formerly ECED 2040)
3 Credits
3 Class Hours

A study of the role of the family, community and the physical, cognitive, social, and emotional growth of the child ages birth through eight. Topics include the benefits of, and strategies for, developing positive reciprocal relationships with families in an early childhood setting. Field experiences required.  
**Prerequisite(s):** ECED 2315 or department approval.

Semester Availability: Fall, Spring

**ECED 2360 - Dev of Exceptional Children**

(Formerly ECED 2060)
3 Credits
3 Class Hours

An exploration of the practices that early childhood professionals can apply to develop a more inclusive and accessible environment for all children ages birth through eight. Provides students with skills to include children of all abilities through appropriate arrangement of the environment. Topics include strategies for developing strong relationships with families and other community agencies. Field experiences required.  
**Prerequisite(s):** ECED 2320 or department approval
Semester Availability: Fall

**ECED 2365 - Final Practicum**

(Formerly ECED 2160)
3 Credits
1 Class Hour, 2 Lab Hours

A supervised clinical experience with a minimum of 15 clock hours in instruction and 90 clock hours in a Clinical Site approved by the Department (accredited agency, 3-star or Department-approved site). Up to 45 hours may be completed in the student's employment site with department approval. Focuses on the student's demonstration of competencies that produce positive developmental outcomes for young children ages birth through eight. **Prerequisite(s):** ECED 2335 and prerequisite or corequisite ECED 2370. This should be one of the last courses taken in the ECED program.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ECED 2370 - Developmental Assessment**

(Formerly ECED 2070)
3 Credits
3 Class Hours

Covers assessment for children from birth through eight years of age. Both formal and informal instruments will be discussed emphasizing tools that can be effectively used by teachers of young children. Considerations in choosing, administering, and reporting results of assessments will also be addressed. Field experiences required. **Prerequisite(s):** ECED 2320 or department approval

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ECED 2375 - Social-Emotional Development**

(Formerly ECED 2075 - Social & Emotional Foundations)
3 Credits
3 Class Hours

This course addresses promotion, prevention and intervention strategies related to young children's social-emotional development and challenging behavior. The course is built around the Teaching Pyramid (Fox, Dunlap, Hemmeter, Joseph & Strain, 2003) which is a framework for understanding effective practices related to supporting young children's social-emotional development and addressing challenging behavior. The model includes a focus on building relationships with children, families and
colleagues, designing environments that support young children’s social-emotional competence, strategies for teaching social skills and promoting emotional development. Includes a systematic approach for addressing challenging behavior when it is persistent and not responsive to developmentally appropriate guidance procedures.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ECED 2380 - Language & Literacy in ECE**

(Formerly ECED 2080)
3 Credits
3 Class Hours

A study of the research-based principles and practices for providing young children ages birth through eight with a strong foundation in language and literacy using a developmentally appropriate approach. Field experiences required. **Prerequisite(s):** ECED 2315 or department approval

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ECED 2385 - Math and Science in ECE**

(Formerly ECED 2085)
3 Credits
3 Class Hours

Covers the standards, principles, and practices in teaching mathematics and science to young children ages birth through eight. Emphasis developing an integrated math and science curriculum that includes appropriate content, processes, environment and materials, and child-centered choices. Field experiences required. **Prerequisite(s):** ECED 2315 or department approval

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**ECED 2386 - Spec Topics in Early Childhood**

(Formerly ECED 2003)
3 Credits

A study of programs, trends, and issues in the field of early childhood education.

Semester Availability: Upon Special Request
ECED 2390 - Creative Development

(Formerly ECED 2090)
3 Credits
3 Class Hours

Provides strategies for promoting creative development of the child ages birth through eight. Topics include understanding the concept of creativity: what it is, why it is important, and how the development of creativity relates to art, music, movement, and drama. Field experiences required. **Prerequisite(s):** ECED 2315 or department approval

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

ECON 2000 - Current Issues in Economics

1 Credit
1 Class Hour

An analysis of current economic issues such as, but not limited to, the national debt, national deficit, international trade, taxes, Social Security, the military-industrial complex, Medicare, education, and the application of the three basic economic questions in a global economy.

Semester Availability: Fall, Spring

ECON 2010 - Macroeconomics*

(Formerly ECON 1111)
3 Credits
3 Class Hours

This course introduces and explores a variety of macroeconomic topics including aggregate supply and demand, market equilibrium, Gross Domestic Product, employment, income, prices, major schools of economic thought, fluctuations, growth, monetary policy, fiscal policy, the national debt, international trade, and international finance. ECON 2010 meets the General Education requirement for Social Sciences. **Prerequisite(s):** Level 2 placement in English and Reading. **Note:** This course is not a prerequisite for ECON 2020.

Semester Availability: All

Not part of a Tennessee Transfer Pathway
* This course is part of the general education core.

**ECON 2020 - Microeconomics**

(Formerly ECON 1121)
3 Credits
3 Class Hours

This course introduces and explores a variety of microeconomic topics including supply and demand, market equilibrium, elasticity, decision making by producers and consumers, production cost, market structures, public policy, the labor market, distribution of income, environmental policy, market efficiency, and government intervention. ECON 2020 meets the General Education requirement for Social Sciences. **Prerequisite(s):** Level 2 placement in English and Reading. **Note:** This course is not a prerequisite for ECON 2010.

Semester Availability: All

* This course is part of the general education core.

**EDUC 2001 - Spec Topics in Education**

1 Credit

A study of programs, trends, and issues in education.

Semester Availability: Upon Special Request

Not part of a Tennessee Transfer Pathway

**EDUC 2002 - Spec Topics in Education**

2 Credits

A study of programs, trends, and issues in education.

Semester Availability: Upon Special Request

Not part of a Tennessee Transfer Pathway

**EDUC 2003 - Spec Topics in Education**
3 Credits

A study of programs, trends, and issues in education.

Semester Availability: Upon Special Request

Not part of a Tennessee Transfer Pathway

**EDUC 2010 - Introduction to Teaching**

(Formerly EDUC 2010 - Foundations of Education)

3 Credits

3 Class Hours

A study of the historical, philosophical, and sociological foundations underlying the development of American educational institutions. The role of the schools, the aims of education, and the role of state, local, and federal agencies will be included in addition to a required field experience. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

**Note:** This course is part of the AST K-6 Elementary Education Degree.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**EDUC 2110 - Educational Psychology**

3 Credits

3 Class Hours

A study and application of the principles of growth and development, learning theory, and assessment techniques in the classroom setting. Motivating and facilitating learning processes in school settings will be emphasized. Field experiences in an approved classroom are required. **Prerequisite(s):** EDUC 2010, English: Level 2 placement, Reading: Level 2 placement.

**Note:** This course is part of the AST K-6 Elementary Education Degree. This course is the same as PSYC 2100.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**EDUC 2120 - Intro to Special Education**

3 Credits

3 Class Hours

A study of the characteristics and needs of children with special needs and/or disabilities with an
emphasis on legislation, programs, services, and best practices in the educational setting. Field experiences are required. **Prerequisite(s):** EDUC 2010, English: Level 2 placement, Reading: Level 2 placement.

**Note:** This course is part of the AST K-6 Elementary Education Degree.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**EDUC 2200 - Instructional Technology**

3 Credits
3 Class Hours

An examination of the theories, principles, and applications of technology-based strategies and instructional designs for online, blended and classroom learning. Encourages the use and integration of technology in educational settings by providing experiences with audio/visual aids and equipment, preparation of instructional plans, tryout of plans with videotaping, and micro-teaching sessions to promote effective classroom instruction in order to produce instructional materials based on specific learner characteristics and objectives. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

Semester Availability: Upon Request

Not part of a Tennessee Transfer Pathway

**EDUC 2375 - Social-Emotional Development**

(Formerly EDUC 2075 - Social & Emotional Foundations)
3 Credits
3 Class Hours

This course addresses promotion, prevention and intervention strategies related to young children's social-emotional development and challenging behavior. The course is built around the Teaching Pyramid (Fox, Dunlap, Hemmeter, Joseph & Strain, 2003) which is a framework for understanding effective practices related to supporting young children's social-emotional development and addressing challenging behavior. The model includes a focus on building relationships with children, families and colleagues, designing environments that support young children's social-emotional competence, strategies for teaching social skills and promoting emotional development, and a systematic approach for addressing challenging behavior when it is persistent and not responsive to developmentally appropriate guidance procedures.

**Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
**EETH 1100 - Electrical Maintenance Orient**

4 Credits  
3 Class Hours, 3 Lab Hours

An introductory course in electricity that includes the basic physics and mathematics while developing structured problem-solving techniques along with basic computer skills. Topics include laws of motion, simple machines, basic thermodynamics, and the behavior of matter while reviewing algebra, simple geometry, and right angle trigonometry.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 1110 - Electric Circuits**

4 Credits  
4 Class Hours

An introductory course for all Electrical Engineering Technology concentrations. Topics include voltage, current, resistance, and power in DC and AC circuits, series, parallel, and more complex circuits using Kirchhoff’s laws and selected network theorems, capacitance and inductance, resonance, transformers and polyphase concepts.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 1115 - Electric Circuits Lab**

1 Credit  
2 Lab Hours

A laboratory course that parallels the EETH 1110 lecture course. Lab exercises include building, measurement, and analysis of DC and AC circuits containing resistance, inductance, and capacitance. **Corequisite(s):** EETH 1110

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 1200 - Electronics for Ind Elec**
An intermediate course in electrical theory as applied to electronics. Topics include solid-state electronics as circuit elements, including diodes, bipolar transistors, rectifier circuits, Zener diode regulators, power supplies, applications in selected linear circuits, and operational amplifiers in various feedback configurations. **Prerequisite(s):** EETH 1110

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**EETH 1210 - Electronic Circuits**

4 Credits
4 Class Hours

An intermediate course in electrical theory as applied to electronics. Topics include solid-state electronics as circuit elements, including diodes, bipolar transistors, rectifier circuits, Zener diode regulators, power supplies, power amplification, junction and MOSFETs, applications in selected linear circuits, and operational amplifiers in various feedback configurations. **Prerequisite(s):** EETH 1110

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**EETH 1215 - Electronic Circuits Lab**

1 Credit
2 Lab Hours

Parallels EETH 1210 lecture course. Includes constructing and analyzing discrete and integrated analog transistor circuits. **Corequisite(s):** EETH 1210

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**EETH 1220 - Transformers/Rotating Machines**

2 Credits
2 Class Hours

This is an intermediate level course that provides an understanding of electrical machinery. Topics
include transformer theory and application, single-phase and three-phase connections, auto-transformers, special instrument transformers, the development of horsepower, torque, efficiency as related to the operation of D.C. motors and generators, single-phase and three-phase motors, alternators, stepper motors, resolvers, synchros, and comparisons in the performance of machines. **Prerequisite(s):** EETH 1110

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 1225 - Transformers/Rotat. Mach. Lab**

1 Credit
2 Lab Hours

Parallels the EETH 1220 lecture course. Topics include construction of common single-phase and three-phase DC and AC motor, generator, and transformer systems. **Corequisite(s):** EETH 1220

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 1400 - Digital Electronics**

2 Credits
2 Class Hours

Study concepts of Boolean Logic and their applications to designing and analyzing digital integrated circuits. Topics include binary and other number base systems and codes, logic circuits, A/D and D/A converters, counters, shift registers, adders, multiplexers, encoders, and various memory devices and their operation.

 Semester Availability: Spring (Main Campus), Fall (Cookeville Campus)

Not part of a Tennessee Transfer Pathway

**EETH 1405 - Digital Electronics Lab**

1 Credit
2 Lab Hours

Parallels the EETH 1400 lecture course. Topics include the construction and analysis of 7400 series IC circuits, A/D, D/A converters, counters, registers, and similar digital circuits. **Corequisite(s):** EETH 1400

Semester Availability: Spring (Main Campus), Fall (Cookeville Campus)
EETH 2010 - Industrial Electronic Controls

3 Credits
3 Class Hours

Advanced study of control circuits and electronic devices used in operating machines and processes in industry. Topics include design of control circuits using relay logic and solid-state logic, solid-state control of DC motors, AC motors, and stepper motors, power supplies, operational amplifiers, thyristors, transducers, timers, optical and thermal devices, and other components such as programmable controllers to show how automated equipment can be accurately controlled. Prerequisite(s): EETH 1110

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

EETH 2015 - Industrial Elec. Controls Lab

1 Credit
2 Lab Hours

Parallels the EETH 2010 lecture course. Lab exercises include construction, measurement, and analysis of control circuits. Corequisite(s): EETH 2010

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

EETH 2220 - Electronic Communications

2 Credits
2 Class Hours

An introductory course in electronic communications. Topics include signal generation, amplitude modulation, transmission and reception, single sideband systems, angle modulation transmission, angle modulation receivers, FM stereo and two-way FM, television, transmission lines, electromagnetic wave propagation, antennas and waveguides, microwave communications, and satellite communications. Prerequisite(s): EETH 1210

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway
EETH 2225 - Electronic Communications Lab

1 Credit
2 Lab Hours

Parallels the EETH 2220 lecture course. Lab exercises include construction, analysis, and troubleshooting of communications systems. **Corequisite(s):** EETH 2220

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

EETH 2230 - Digital Communications

2 Credits
2 Class Hours

Acquaints the student with the operations and theory of electronic communications systems. The theory of digital pulse modulation communications, multiplexing in broadband systems covering coaxial cables, fiber optic links, public telephone networks including cellular, data link protocols and data communications and their practical uses are covered. **Prerequisite(s):** EETH 1210

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

EETH 2235 - Digital Communications Lab

1 Credit
2 Lab Hours

Parallels the EETH 2230 lecture course. Laboratory exercises include construction, analysis, and troubleshooting digital communications systems. **Corequisite(s):** EETH 2230

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

EETH 2240 - Instrumentation
Advanced course in the industrial transducer devices most commonly used by industry in Automated Process Control Systems. Topics include electrical and mechanical transducers applied in the measurement of temperature, pressure, flow and position, and exercises using computers and computer interfacing to give a realistic approach to the industrial application of these devices. **Prerequisite(s):** EETH 1210

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 2245 - Instrumentation Lab**

1 Credit
2 Lab Hours

Parallels the EETH 2240 lecture course. Lab exercises include work with transducers, monitoring systems, computer interfaces for TCP/IP transmissions and RFID systems. **Corequisite(s):** EETH 2240

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**EETH 2250 - Fiber Optics & Cabling**

3 Credits
3 Class Hours

An introduction to optical fiber as another medium in which information can be transmitted, received, multiplexed, demultiplexed and distributed. Topics include light sources, detectors, splices and connectors, couplers, fiber-optic systems and installation and types of fiber-optic equipment. Horizontal and vertical cabling techniques (facilities, cable ways) are taught to BICSI and EIA/TIA standards. **Prerequisite(s):** EETH 1210

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**EETH 2255 - Fiber Optics & Cabling Lab**

1 Credit
2 Lab Hours
This laboratory is tailored primarily to enhance hands-on fiber optics. It covers experimentations on light sources (LEDs & LASERS), light detectors (photo diodes & photo transistors), making connectors, polishing and splicing, and testing fiber cables. The course also covers types of cables and measurements with test equipment. **Corequisite(s):** EETH 2250

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**EETH 2330 - Power Distribution**

3 Credits  
2 Class Hours, 2 Lab Hours

A course in electrical power distribution systems with a focus on the design of electrical distribution systems for utilities, industrial plants, commercial buildings, and automated control systems. Topics include services, transformers, substations, switchboards, distribution circuit components, faults, power factor, control panel wiring, and troubleshooting. **Prerequisite(s):** EETH 1110  

**Semester Availability:** Spring Offered at Cookeville location only

Not part of a Tennessee Transfer Pathway

**EETH 2340 - Programmable Motion Contr.**

3 Credits  
2 Class Hours, 2 Lab Hours

Advanced course in solid-state controls for rotating machinery. Topics include programmable AC, DC drives, single and multi axis controllers, stepping motor controllers, the control of pick and place, continuous path robots, G-codes for programming of CNC equipment, encoders, resolvers, tachometers, synchros, accelerometers, and motion transducers. **Prerequisite(s):** EETH 1110

**Semester Availability:** Fall Offered at Cookeville location only

Not part of a Tennessee Transfer Pathway

**EETH 2350 - Graphical Machine Interfaces**

3 Credits  
2 Class Hours, 2 Lab Hours

A course in the creation and configuration of graphical operator interface panels (often called human machine interfaces, HMIs). Topics include the creation and configuration of HMI pushbuttons,
indicators, data displays, data entry, graphs, and alarms. **Corequisite(s):** EETH 2600

Semester Availability: Spring Offered at Cookeville location only

Not part of a Tennessee Transfer Pathway

**EETH 2360 - Industrial Communications**

3 Credits
2 Class Hours, 2 Lab Hours

An introductory course in data communication as used in the industrial environment. Topics include the theoretical aspects of data communication such as bandwidth, channel capacities, error detection/correction, setting up and configuring different types of networks, RS-232, RS485, Ethernet, fiber optics, wireless networks, and several proprietary industrial networks. **Prerequisite(s):** EETH 1110

Semester Availability: Fall Offered at Cookeville location only

Not part of a Tennessee Transfer Pathway

**EETH 2370 - Programmable Process Contr.**

3 Credits
2 Class Hours, 2 Lab Hours

An advanced course in closed-loop control systems and instrumentation. Topics include the modes of control, the programming of intelligent controllers, PLC, application software used in the industrial environment for process control, and various process transducers for measurements of temperature, flow, pressure, and level. **Prerequisite(s):** EETH 1110

Semester Availability: Spring Offered at Cookeville location only

Not part of a Tennessee Transfer Pathway

**EETH 2380 - Computer Integrated Lab**

3 Credits
2 Class Hours, 3 Lab Hours

This course covers the integration of multiple intelligent controllers and devices into a complete system. Topics include PLC, robots, CNC machinery, intelligent motion controllers, and troubleshooting. **Prerequisite(s):** EETH 2340, EETH 2600
EETH 2410 - Hydraulics and Pneumatics

4 Credits
3 Class Hours, 3 Lab Hours

This course covers fluid mechanics with emphasis on the use of hydraulics and pneumatics for power transmission and control purposes. Basic theory and application covers the relationship between fluid flow and pressure, accumulators, actuators, and the control of both fluid and air.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

EETH 2600 - Automatic Control Systems

4 Credits
3 Class Hours, 2 Lab Hours

An introduction to a wide range of industrial automatic controls. The programmable logic controller is the base of study with the emphasis on programming. Topics include the various types of transducers common to the industrial environment and the interfacing of I/O devices to the PLC. Modes of controls, process response, and the final correcting devices are discussed. Prerequisite(s): EETH 1110

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

EETH 2640 - Electrical Code

4 Credits
3 Class Hours, 2 Lab Hours

This course covers the use of the current National Electrical Code (NEC). Topics include the NEC history, ampacity, conductor size, overcurrent protection, grounding, motor branch circuit and feeder conductors, temperature corrections, service calculations, and number and size of conductors in raceways. Emphasis is on industrial and commercial applications.

Semester Availability: Spring
EETH 2800 - Electrical Capstone Course

1 Credit
1 Class Hour

An advanced course that reviews all course material that is common to the Electrical Engineering Technology degree program and all of its concentrations. Includes a departmental exit exam that all program graduates are required to take. This course should be scheduled as closely as possible to the student’s graduation date. **Prerequisite(s):** EETH 1110, EETH 1400, and EETH 2010

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

ENGL 0810 - Learning Support English I

3 Credits
3 Class Hours

Focuses on the writing process with concentration on drafting effective introductions, conclusions, body paragraphs, theses, and supporting details as well as effective use of language, grammar, and mechanics. **Prerequisite(s):** Level 1 Placement in English. **Note:** Enrollment available only to students enrolled in a technical certificate program that requires learning support competency in English but does not require ENGL 1010.

Semester Availability: As needed

Not part of a Tennessee Transfer Pathway

ENGL 0815 – English Support

3 Credits
3 Class Hours

This course accompanies ENGL 1010 – Composition I and helps students to improve English and writing skills for this and other college-level classes. Successful completion of this course and ENGL 1010 prepares students for the writing they will do in subsequent college courses. This course cannot be taken by itself and must be completed with an on-ground section of ENGL 1010. **Prerequisite(s):** Level 1 placement in English. **Co-requisite:** ENGL 1010.

Semester Availability: All
Not part of a Tennessee Transfer Pathway

**ENGL 1010 - English Composition I***
(Honors Option Offered)

3 Credits
3 Class Hours

A study of style, syntax, and basic organizational patterns. Topics include various rhetorical patterns, audience, purpose, diverse perspectives, writing, revising, and editing. Documented research paper required. **Prerequisite(s):** Level 2 placement in English or Level 1 placement in English with concurrent enrollment in ENGL 0815; Reading: Level 2 placement in Reading or concurrent enrollment in READ 0815.

Semester Availability: All

* This course is part of the general education core.

**ENGL 1020 - English Composition II***
(Honors Option Offered)

3 Credits
3 Class Hours

A study of argumentative and analytical writing. Topics include advanced methods of composition, analysis and explication of literature/ essays, elements of persuasion, use of evidence, and advanced methods of research. **Prerequisite(s):** Completion of ENGL 1010 with a C or higher

Semester Availability: All

* This course is part of the general education core.

**ENGL 2000 - Grammar Express**

1 Credit
1 Class Hour

Topics include punctuation, usage, common errors, and misspellings. **Prerequisite(s):** Level 2 placement in English; Level 2 placement in Reading
Semester Availability: Fall, Spring

**ENGL 2001 - Pop Literature and Culture**

(Honors Option Offered)

1 Credit
1 Class Hour

An analysis of popular literary genres. Specific topics are determined by the instructor and may include gothic, popular romances, mysteries, westerns, science-fiction and fantasy, children's literature, and others. (Please check the class schedule for specific themes in Pop Literature and Culture because the focus of the course and the instructor change each semester.) **Prerequisite(s):** Level 2 placement in English; Level 2 placement in Reading

Semester Availability: Fall, Spring

**ENGL 2002 - 20th-Century Am Women Writers**

(Honors Option Offered)

1 Credit
1 Class Hour

Introduces students to the literary contributions of 20th-century American women writers. **Prerequisite(s):** Level 2 placement in English; Level 2 placement in Reading

Semester Availability: Fall, Spring

**ENGL 2005 - Creative Non-fiction Workshop**

(Honors Option Offered)

1 Credit
1 Class Hour

An introduction to the art of the personal essay. Topics include critical analysis of a variety of personal essays from the 20th century to today, crafting personal essays, critiquing peer work, and submitting a final portfolio. **Prerequisite(s):** Level 2 placement in English; Level 2 placement in Reading

Semester Availability: Fall, Spring

**ENGL 2010 - Literature: Fiction**
(Honors Option Offered)

3 Credits
3 Class Hours

An introduction to short stories and novels. Topics include major literary themes, historical/social events that influenced the writers, literary terminology, characteristics of literature, interpretation of literature, and analysis of composition and style. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2010 meets the requirement for a Humanities elective.

**Semester Availability:** All

* This course is part of the general education core.

**ENGL 2020 - Literature: Poetry and Drama***

(Honors Option Offered)

3 Credits
3 Class Hours

An introduction to the works of major poets and dramatists. Topics include major literary themes, historical/social events that influenced the writers, literary terminology, characteristics of literature, interpretation of literature, and analysis of composition and major literary themes. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2020 meets the requirement for a Humanities elective.

**Semester Availability:** All

* This course is part of the general education core.

**ENGL 2030 - Themes in Literature & Culture***

(Honors Option Offered)

3 Credits
3 Class Hours

An analysis of significant primary texts as forms of cultural and creative expression. Specific topics are determined by the instructor and may include gender, the supernatural, film, comedy, Greek and Roman literature, mythology, Native American literature, Shakespeare, and Southern literature. Students may register for this course multiple times as topics vary each semester. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2030 meets the requirement for a Humanities elective.

**Semester Availability:** All
ENGL 2110 - Survey of American Lit I*

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of American literature from the time of Colonial expansion through the Civil War period. Topics include works of significant writers of fiction, poetry, prose, and/or drama, and the relevant historical context. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2110 meets the requirement for a Humanities elective.

Semester Availability: All

* This course is part of the general education core.

ENGL 2116 - Writing for the Web

3 Credits
3 Class Hours

Develops comprehensible and useful content for the Web. Topics include critiques of the writing style of current Web pages, the design of online documentation, and the development of appropriate online copy. **Prerequisite(s):** ENGL 1010. **Note:** ENGL 2116 does not meet the requirement for a general education core course.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

ENGL 2118 - Creative Writing

3 Credits
3 Class Hours

An introduction to the process of imaginative writing. Topics include evaluation of model stories, poems, and personal essays; genres of fiction, poetry, and creative non-fiction; and critical analysis of writing process and final work. **Prerequisite(s):** ENGL 1010. **Note:** ENGL 2118 does not meet the requirement for a general education core course.

Semester Availability: Fall, Spring
ENGL 2120 - Survey of American Lit II*

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of American literature from the period of post-Civil War regionalism through the present. Topics include the works of significant writers of fiction, poetry, prose, and/or drama, taking into account events in history which influenced them. Prerequisite(s): ENGL 1010 and ENGL 1020. Note: ENGL 2120 meets the requirement for a Humanities elective.

Semester Availability: All

* This course is part of the general education core.

ENGL 2133 - Multicultural Literature*

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of American authors and poets of various ethnic backgrounds. Topics include biography, essays, poetry, and short fiction by African Americans, Asian Americans, Hispanic Americans, and Native Americans. Prerequisite(s): ENGL 1010 and ENGL 1020. Note: ENGL 2133 meets the requirement for a Humanities elective.

Semester Availability: All

* This course is part of the general education core.

ENGL 2140 - Introduction to Cinema*

(Honors Option Offered)

3 Credits
3 Class Hours

An introduction to the basic elements of cinema. Topics include elements of classic films, techniques of analysis, and cinematic production techniques. Prerequisite(s): ENGL 1010 and ENGL 1020. Note: ENGL 2140 meets the requirement for a Humanities elective.
Semester Availability: Fall, Spring

* This course is part of the general education core.

**ENGL 2210 - Survey of British Lit I**

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of British literature from Beowulf through the Restoration and the 18th century. Topics include the works of significant writers of fiction, poetry, prose, and/or drama, taking into account events in history that influenced them. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2210 meets the requirement for a Humanities elective.

Semester Availability: Fall

* This course is part of the general education core.

**ENGL 2220 - Survey of British Lit II**

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of British literature from the period of Romanticism to the present. Topics include the works of significant writers of fiction, poetry, prose, and/or drama, taking into account events in history that influenced them. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2220 meets the requirement for a Humanities elective.

Semester Availability: Spring

* This course is part of the general education core.

**ENGL 2310 - Survey of World Lit I**

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of world literature from the ancient world through the Renaissance. Topics include the works of significant writers of fiction, poetry, prose, and/or drama, taking into account events in history that
influenced them. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2310 meets the requirement for a Humanities elective.

Semester Availability: Fall, Summer

* This course is part of the general education core.

**ENGL 2320 - Survey of World Lit II***

(Honors Option Offered)

3 Credits  
3 Class Hours

A survey of world literature from the Age of Enlightenment to the present. Topics include the works of significant writers of fiction, poetry, prose, and/or drama, taking into account events in history that influenced them. **Prerequisite(s):** ENGL 1010 and ENGL 1020. **Note:** ENGL 2320 meets the requirement for a Humanities elective.

Semester Availability: Spring

* This course is part of the general education core.

**ENGR 2110 - Statics**

3 Credits  
3 Class Hours

An introductory course on structural mechanics. Topics include components and resultants of forces; equilibrium equations; reactions for beams, frames, and trusses; centroids; moments of inertia; shear and moment diagrams; and analysis of trusses. Students analyze structures with both calculators and computers. **Prerequisite(s):** MATH 1920

Semester Availability: Fall, Spring

**ENGR 2120 - Dynamics**

3 Credits  
3 Class Hours

An advanced calculus-based mechanics class. Topics include particle kinematics, relative motion, kinetics, applications of Newton’s Laws, work-energy principle, impulse-momentum principle, and mechanical vibrations. **Prerequisite(s):** ENGR 2110
Semester Availability: Spring

**ENGR 2130 - Circuits I**

4 Credits  
3 Class Hours, 2 Lab Hours  

An introduction to electric circuit quantities and components, systematic application of Ohm’s and Kirchhoff’s laws, superposition, Thévenin and Norton theorems, operational amplifiers, RL and RC transients, and computer circuit simulation. **Prerequisite(s):** MATH 1920 and MATH 2010. MATH 2010 may be taken concurrently.

Semester Availability: Fall

**ENGT 1000 - Intro to Engr Technology**

3 Credits  
2 Class Hours, 2 Lab Hours  

An introduction to any engineering technology discipline. The course prepares the students to be successful in the technology programs offered at Nashville State Community College. Included are business organization and communication techniques such as preparing a notebook, email and attachments, use of Excel® spreadsheet, use of PowerPoint®, use of Internet®, working in teams, scanning, Paint Shop Pro®, developing an action plan, making a proposal, and introduction to several case studies. Students will learn technical concepts by solving authentic real-world problems.

Semester Availability: Fall, Spring  

Not part of a Tennessee Transfer Pathway

**ENGT 1150 - Technical Graphics**

3 Credits  
2 Class Hours, 2 Lab Hours  

An introductory graphics course to computer-aided drafting (CAD). This class introduces students to the concepts for rendering designs and proper techniques used in drafting and design. Topics will include geometric constructions, lettering, freehand sketching, the alphabet of lines, the use of scales, orthographic projections, section views, pictorial drawings, dimensioning, correct construction techniques with simple instruments, and correct terminology for CAD. **Prerequisite(s):** Level 2 placement Math.

Semester Availability: Fall, Spring
ENGT 2800 - Arch/Civil/Const Engr Tech Cap

1 Credit
1 Lab Hour

An advanced course that reviews course material common to the Architectural, Civil and Construction Engineering Technology program concentrations and assists students to enter the workplace. Includes a required departmental exit exam, preparation of a resume, a mock interview, and participation in a community service event. **Prerequisite(s):** CIT 1220, CIT 2110, and ACT 1161

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

ENTR 1600 - Entrepreneurship

3 Credits
3 Class Hours

An introduction to entrepreneurship. Topics include economic, social and political climate; demographic, technological and social changes; skills, challenges, and rewards of entrepreneurship.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

ENTR 1650 - Franchising

3 Credits
3 Class Hours

A study of the franchising method of doing business from both the perspective of the franchisor and the franchisee. Students will analyze franchise business ventures to understand the advantages and disadvantages of the franchising opportunity, the components and efforts required for success, the interdependent legal and contractual obligations, franchisee qualifications, and the global reach of franchising.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

ENTR 1700 - Business Financial Management
ENTR 1600 - Funding a Small Business

3 Credits
3 Class Hours

An introduction to the sources for funding a small business. Topics include terminology, financial statements, loan proposals, working capital, cash management, financing needs, credit policies, and sales forecasts. **Prerequisite(s): (Or Corequisite) ENTR 1600**

Semester Availability: All

Not part of a Tennessee Transfer Pathway

ENTR 1800 - Entrepreneurship Marketing

3 Credits
3 Class Hours

A study of the unique challenges and opportunities of marketing an entrepreneurial venture. Students will analyze the marketing philosophies and strategies of successful entrepreneurs. Topics include the importance of marketing an entrepreneurial venture, analyzing the target audience, conducting market research, development of entrepreneurial marketing objectives, planning and creation of marketing messages, the use of various marketing media, and the steps involved in creating a marketing plan. Students will prepare a marketing plan for an entrepreneurial venture.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

ENTR 2000 - Principles of Supervision

3 Credits
3 Class Hours

A study of the challenges, opportunities, responsibilities, and concerns of being a supervisor in an entrepreneurial start-up, franchise, or existing small business venture. This course addresses the daily operation of a business including the recruitment, selection, and retention of qualified employees; addressing employee problems and growth through coaching, counseling, training, and development; disciplinary action procedures, practices, and methods; internal and external communications; planning, scheduling, and controlling work activities; performance evaluation; and safety and health requirements in the work environment.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

ENTR 2200 - Business Plan Fundamentals
An introduction to business planning. The students will assess business strengths and weaknesses; collect and organize market data; develop a business plan, marketing plan, and financial plan. **Prerequisite(s):** ENTR 1600, ENTR 1700, ENTR 1800

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**ESOL 0122 - Listening and Speaking 2**

3 Credits
3 Class Hours

This course is for low-intermediate students. Students will discuss and react to listenings on American culture topics. **Prerequisite(s):** ESOL 0121 or equivalent skills.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**ESOL 0123 - Listening and Speaking 3**

3 Credits
3 Class Hours

This course is for high-intermediate students. Students will converse in more depth on social and academic topics and participate in academic discussions. **Prerequisite(s):** ESOL 0122 or equivalent skills.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**ESOL 0124 - Listening and Speaking 4**

3 Credits
3 Class Hours

This course is at the advanced level. Students will listen to and take notes on academic lectures as well as learn basic public speaking skills. **Prerequisite(s):** ESOL 0123 or equivalent skills.

Semester Availability: All
ESOL 0132 - Reading and Writing 2

3 Credits
3 Class Hours

This course is for low-intermediate students. Students will learn to write grammatically correct sentences and basic paragraphs, read and understand simple paragraphs, and respond to the readings in writing. Prerequisite(s): ESOL 0131 or equivalent skills.

Semester Availability: All

ESOL 0141 - Spelling and Vocabulary

3 Credits
3 Class Hours

A study of English spelling rules and the Latin and Greek roots, prefixes, and suffixes which make up professional English lexicons.

Semester Availability: On Demand

ESOL 0152 - Grammar 2

3 Credits
3 Class Hours

This course is for low-intermediate students. Students will focus on more complex grammar topics and apply them to speaking and writing. Prerequisite(s): ESOL 0151 or equivalent skills.

Semester Availability: All

ESOL 0153 - Grammar 3
This course is for high-intermediate students. Students will study grammar topics that will provide a foundation for advanced grammar study. **Prerequisite(s):** ESOL 0152 or equivalent skills.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**ESOL 0154 - Grammar 4**

This course is an advanced grammar course that will complement higher-level reading and writing courses. **Prerequisite(s):** ESOL 0153 or equivalent skills.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**ESOL 0163 - American College Experience**

A beginning study of American culture and its effects on education. **Prerequisite(s):** ESOL 0131 or equivalent skills.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**ESOL 0173 - Reading 3**

This course is for high-intermediate students. Students will increase vocabulary and reading abilities. Students will read academic texts and search for main ideas and details. **Prerequisite(s):** ESOL 0132 or equivalent skills.

Semester Availability: All
ESOL 0174 - Reading 4

3 Credits
3 Class Hours

This course is a high-intermediate/low-advanced course to improve students' reading comprehension and enhance vocabulary knowledge in a technology-rich environment. Prerequisite(s): ESOL 0132 and ESOL 0173 or equivalent skills.

Not part of a Tennessee Transfer Pathway

ESOL 0183 - Writing 3

3 Credits
3 Class Hours

This course is for high-intermediate students. Students will learn basic academic paragraph form, basic summarizing skills, and genre awareness. Prerequisite(s): ESOL 0132 or equivalent skills Corequisite(s): ESOL 0163 or equivalent skills.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

ESOL 0184 - Writing 4

3 Credits
3 Class Hours

This course is for high-intermediate/low-advanced students. Students will write academic essays and will become proficient in technology appropriate for the academic writing classroom. Prerequisite(s): ESOL 0132 and ESOL 0183 or equivalent skills.

Not part of a Tennessee Transfer Pathway

ESOL 0191 - English for Health Professions

3 Credits
3 Class Hours

An advanced-level course designed for students who wish to improve their English skills before applying to health-related programs such as Nursing, Occupational Therapy Assistant, and Surgical
Technology. Students will learn the language and culture of healthcare while practicing English skills that are specific to this field. **Prerequisite(s):** ESOL 0124, ESOL 0154, ESOL 0174, ESOL 0184 or equivalent skills.

Semester Availability: On Demand

Not part of a Tennessee Transfer Pathway

**FIN 1110 - Principles of Banking**

(Formerly BNK 1110)
3 Credits
3 Class Hours

An introduction to banking services and functions, including loans, investments, and trust operations. Topics include basic principles of banking transactions and item processing, focusing on deposit and payment functions of banking, procedures and forms relative to opening accounts, cash and collection item processing, proof operations, paying and returning checks, and bookkeeping functions, internal controls and external regulations.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**FIN 1210 - Consumer Lending**

(Formerly BNK 1210)
3 Credits
3 Class Hours

An introduction to the fundamental principles of extending consumer credit. Topics include studying and practicing taking loan applications, verifying credit histories, evaluating credit reports, making credit decisions, processing and disbursing the loan, and recognizing the importance of collateral, exercises in computing interest charges and rebates, insurance of consumer credit, pricing of loans, collections, and consumer compliance.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**FIN 1215 - Commercial Bank Management**

(Formerly BNK 1215)
3 Credits
3 Class Hours
An introduction to the study and application of principles of bank management. Topics include objectives, planning, structure, control, and the interrelationship of various bank departments, trends that have emerged in philosophy and practice of bank management, and case studies stressing current bank problems.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**FIN 2000 - Investing for Your Future**

1 Credit
1 Class Hour

An overview of basic investment terminology and strategy and an analysis of various investment options, instruments, risks, return, costs, and global opportunities.

Semester Availability: Spring

**FIN 2110 - Money and Banking**

(Formerly BNK 2110)
3 Credits
3 Class Hours

An introduction to basic economic principles most closely related to the subject of money and banking. Topics include the application of the economics of money and banking in the individual bank and in the banking system; the nature and functions of money and the money supply; financial intermediation and the various financial markets; the Federal Reserve System, its policies and operation. **Prerequisite(s):** Level 2 placement in Math and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**FIN 2230 - Investment Basics**

(Formerly BNK 2230)
3 Credits
3 Class Hours

Studies basic information on investments in securities, options, commodities, tax shelters, art, and more. Topics include traditional and modern methods of analyzing investment opportunities for the beginning investor, trading in the securities market (using real prices and making their own decisions)
by using a special microcomputer software package. **Prerequisite(s):** Level 2 placement in Math and Reading.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**FREN 1010 - Beginning French I**

3 Credits
3 Class Hours

An introduction to the French language. Provides a foundation in reading, writing, speaking, and aural comprehension. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall

**FREN 1020 - Beginning French II**

3 Credits
3 Class Hours

A continuation of the reading, writing, speaking, and aural skills mastered in FREN 1010. **Prerequisite(s):** FREN 1010 or instructor permission

Semester Availability: Spring

**FREN 2010 - Intermediate French I**

3 Credits
3 Class Hours

A continuation of the development of the student's knowledge of French. Builds aural comprehension, speaking, and composition skills. Includes study of French literature and culture. **Prerequisite(s):** FREN 1020 or instructor permission

Semester Availability: Fall (depending on enrollment)

**FREN 2020 - Intermediate French II**

3 Credits
3 Class Hours
A continuation of the development of the student's knowledge of French. Students build aural comprehension, speaking ability, and composition skills. Broadens study of French literature. **Prerequisite(s):** FREN 2010 or instructor permission

Semester Availability: Spring (depending on enrollment)

**GEOG 1010 - World Regional Geography I***

3 Credits
3 Class Hours

A survey of the geographic regions of the world, including studies of the physical character of the land, resources, economics, and cultures. **Prerequisite(s):** Reading: Level 2 placement, English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815. **Note:** GEOG 1010 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**GEOG 1020 - World Regional Geography II***

3 Credits
3 Class Hours

A continuation of GEOG 1010. Selected topics and world regions, especially those with problems or situations of contemporary interest, to illustrate geographical points of view. **Prerequisite(s):** Reading: Level 2 placement, English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815. **Note:** GEOG 1020 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**GEOG 1030 - Cultural Geography**

3 Credits
3 Class Hours

An introduction to the study of the geography of human cultures including demographics, migration dynamics, and settlement patterns; special dimensions of ethnic, linguistic, and religious diversity; political approaches to economic and urban structures; and differing approaches to the ecological interface. **Prerequisite(s):** Reading: Level 2 placement, English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815.
Semester Availability: All

Not part of a Tennessee Transfer Pathway

**GEOL 1040 - Physical Geology***

4 Credits
3 Class Hours, 3 Lab Hours

This course is an introduction to the principles of modern Geology, emphasizing the origin, composition, and evolution of the solid earth. Rock-forming minerals, igneous, sedimentary, and metamorphic rocks, rock and hydrologic cycles, plate tectonics, earthquakes, landform development and geologic times are covered. The course includes identification and description of minerals and rock samples, and use of topographic and geological maps. Prerequisite(s): Level 2 placement in Math and Reading.

Semester Availability: As needed

* This course is part of the general education core.

**GEOL 1110 - Earth Science***

4 Credits
3 Class Hours, 3 Lab Hours

This course provides a background in the physical, chemical, and biological principles that shape our planet. Topics include geology, astronomy, meteorology, oceanography, energy, the environment, and basic chemical and biological processes. Prerequisite(s): Level 2 placement in Math and Reading.

Semester Availability: All

* This course is part of the general education core.

**HCM 2000 - Healthcare Delivery Systems**

3 Credits
3 Class Hours

This course focuses on the United States healthcare institutions and the legal regulations for each of these institutions. It examines historical backgrounds, future perspectives, and trends. It reviews the way in which each delivery system is organized and the impact it has on various demographics. Prerequisite(s): Level 2 placement in English and Reading. Student must maintain a grade of “C” or higher in order to progress in program.

Semester Availability: Fall, Spring
HCM 2200 - Medical Legal Issues

3 Credits
3 Class Hours

An overview of the legal issues arising in the healthcare workplace. Topics include a brief history of the legal system, torts, contracts, confidentiality, laws relating to drug administration, medical records as a legal document, patients’ authorization, informed consent, medical practice acts, and areas of potential liability for the healthcare professional. **Prerequisite(s):** Level 2 placement in English and Reading. Student must maintain a grade of “C” or higher in order to progress in program.

Semester Availability: Fall, Spring

HCM 2250 - Survey of Coding

3 Credits
3 Class Hours

This course provides an overview of coding and classification systems in a variety of healthcare settings. Topics include classification and coding systems emphasizing ICD and CPT, reimbursement/billing systems, and coding’s relationship to health information management. Upon completion, students should be able to apply coding principles to correctly assign ICD and CPT codes and utilize electronic filing for reimbursement. **Prerequisite(s):** HCM 2000 and HCM 2200 with a grade of "C" or higher. Student must maintain a grade of "C" or higher in order to progress in program.

Semester Availability: Fall, Spring

HCM 2300 - Pharmacology

3 Credits
3 Class Hours

An introduction to generic and product names of a variety of medications, drug classifications, and general therapeutic applications. Topics include a history of drugs, the drug approval process, and applicable prescription and over-the-counter drugs for every body system. **Prerequisite(s):** BIOL 2010 with a grade of "C" or higher. **Corequisite(s):** BIOL 2020 and HCM 2800. If student has had BIOL 2020 or HCM 2800 a grade of "C" or higher is required. Student must maintain a grade of "C" or higher in order to progress in program.
Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**HCM 2400 - ICD-CM Coding**

3 Credits
3 Class Hours

A study of the coding and classification of diseases, symptoms, operations, and procedures according to the International Classification of Diseases, Clinical Modification (ICD-CM). Topics include assignment of diagnosis and procedure codes utilizing proper coding guidelines. **Prerequisite(s):** BIOL 2010 with a grade of "C" or higher. **Corequisite(s):** BIOL 2020 and HCM 2800. If student has had BIOL 2020 and HCM 2800 a grade of "C" or higher is required. HCM 2400 and HCM 2500 cannot be taken at the same time. Student must maintain a grade of "C" or higher in order to progress in program.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**HCM 2450 - ICD-CM PCS Coding**

3 Credits
3 Class Hours

A continuation of HCM 2400 - ICD-CM Coding. Emphasis will be placed on assignment of procedure and diagnosis codes utilizing proper coding guidelines. **Prerequisite(s):** BIOL 2020, HCM 2400, and HCM 2800 with a grade of "C" or higher. Student must maintain a grade of "C" or higher in order to progress in program.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**HCM 2500 - CPT Coding**

3 Credits
3 Class Hours

A study of the descriptive terms and identifying codes for reporting medical services and procedures according to the latest edition of Physicians' Current Procedural Terminology (CPT). Topics include CPT coding format and conventions, applying coding guidelines to ensure accurate code assignment, complexities of assigning evaluation and management codes, and the format and usage of HCPCS.
National Codes and modifiers. **Prerequisite(s):** BIOL 2010 with a grade of "C" or higher. **Corequisite(s):** BIOL 2020 and HCM 2800. If student has had BIOL 2020 and HCM 2800 a grade of "C" or higher is required. HCM 2400 and HCM 2500 cannot be taken at the same time. Student must maintain a grade of "C" or higher in order to progress in program.

**Semester Availability:** Fall

**Not part of a Tennessee Transfer Pathway**

**HCM 2600 - Insurance & Reimbursement**

3 Credits  
3 Class Hours

A study of insurance billing procedures. Topics include instruction for completing pertinent forms for third-party payers. Reimbursement methods for billing and reporting are discussed. **Prerequisite(s):** HCM 2000 and HCM 2200 with a grade “C” or higher. Student must maintain a grade of “C” or higher in order to progress in program.

**Semester Availability:** Fall, Spring

**Not part of a Tennessee Transfer Pathway**

**HCM 2700 - Coding Capstone**

3 Credits  
3 Class Hours

A second-year advanced course that applies coding knowledge learned from preceding courses. Required for all coding students. Topics include ICD and CPT code assignments, application of coding guidelines to ensure accurate code assignment and correct code sequencing. Preparation for coding certification will be emphasized. **Prerequisite(s):** HCM 2400 and HCM 2500 with a grade of “C” or higher. Student must maintain a grade of “C” or higher in order to progress in program.

**Semester Availability:** Fall, Spring

**Not part of a Tennessee Transfer Pathway**

**HCM 2750 - Electronic Healthcare Apps**

3 Credits  
3 Class Hours

This course covers EMR/EHR systems, design, implementation, and application. Topics include EHR, Health Informatics, information/network security, troubleshooting, medical office hardware and
software applications, and on- and off-site medical record storage. Upon completion, students should be able to facilitate usage of electronic health record systems and other technologies. **Prerequisite(s):** INFS 1010 and HCM 2000 with a grade of “C” or higher. Student must maintain a grade of “C” or higher in order to progress in program.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**HCM 2800 - Pathophysiology**

4 Credits
4 Class Hours

This course focuses on pathophysiology for general healthcare managers. Topics include an introduction to principles of general mechanisms of disease including etiology, prognosis, signs, and symptoms; relationship of normal body functioning to the physiologic changes that occur as a result of illness; and rationale for common therapies, laboratory tests, and drugs for selected diseases. **Prerequisite(s):** BIOL 2010 with a grade of "C" or higher. **Corequisite(s):** BIOL 2020. If student has had BIOL 2020 a grade of "C" or higher is required. Student must maintain a grade of "C" or higher in order to progress in program.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**HCM 2900 - Healthcare Management Capstone**

3 Credits
3 Class Hours

This course is a comprehensive review of Healthcare Management. Topics include risk management measures, chart auditing, improved billing practices, medical legal issues, human resource management, and healthcare delivery systems. An exit exam will be administered as a means of assessing program outcomes and will include topics from courses included in the Healthcare Management curriculum. This course should be taken during the last semester of studies at Nashville State. **Prerequisite(s):** HCM 2000, HCM 2200, and HCM 2600. Permission of instructor required.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**HHP 2300 - Intro to Exercise Science**
This course provides a basic overview of exercise science. Topics include exercise physiology, sports nutrition, biomechanics, athletic training, exercise and sport psychology, and motor behavior.

**HHP 2400 - Prev and Care of Ath Injuries**

This course is designed to give an overview of the prevention, care, and management of common injuries in a variety of sports.

**HIST 1110 - World Civilization I**

A study of social, cultural, economic, and political aspects of significant civilizations from the period of unwritten history through the 17th century. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

* This course is part of the general education core.

**HIST 1120 - World Civilization II**

A study of the social, cultural, economic, and political aspects of significant civilizations from the 17th century to the present. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

* This course is part of the general education core.

**HIST 2000 - History's Myths/Misconceptions**

Topics include a study of common myths in American History. Focuses on exploring and debunking these myths for a more accurate view of history and on examining misconceptions of history that have been handed down through the years. **Prerequisite(s):** English: Level 2 placement or concurrent enrollment in
ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815.

**HIST 2010 - United States History I***
(Formerly American People to 1877)
3 Credits
3 Class Hours
A survey of the social, cultural, economic, and political aspects of American life from the pre-Columbian period through the Civil War and Reconstruction. Prerequisite(s): English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815.

* This course is part of the general education core.

**HIST 2020 - United States History II***
(Formerly American People Since 1877)
3 Credits
3 Class Hours
A study of the social, cultural, economic, and political aspects of American life from the Reconstruction period to the present. Prerequisite(s): English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815.

* This course is part of the general education core.

**HIST 2030 - Tennessee History***
3 Credits
3 Class Hours
A study of the history of Tennessee from the neolithic era to the present. Topics include social, cultural, economic, and political activities throughout the state’s history. Prerequisite(s): English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815.

* This course is part of the general education core.

**HORT 1010 - Intro to Horticulture**
3 Credits
3 Class Hours
A study of the principles of plant science and practices underlying occupations in horticulture. Emphasizes cultural methods affecting plant growth and provides a broad perspective of the horticultural industry.

Not part of a Tennessee Transfer Pathway

**HORT 1110 - Landscape Plant Materials I**

3 Credits
3 Class Hours

A study of identification, culture, characteristics, and use of landscape plants. Topics include nomenclature, identification, growth and cultural requirements, and soil preferences. Landscape applications are emphasized. Students acquire knowledge in proper selection and utilization of plant materials into landscapes.

Not part of a Tennessee Transfer Pathway

**HORT 1120 - Landscape Design**

3 Credits
3 Class Hours

An introduction to landscape design principles and practices for residential sites. Topics include drafting, site analysis and common elements of good design, plant material selection, proper plant utilization, and design implementation. Students learn to read, plan, draft, and implement a landscape design. **Prerequisite(s):** HORT 1110 or HORT 2110.

Not part of a Tennessee Transfer Pathway

**HORT 1140 - Landscape Construction**

3 Credits
3 Class Hours

An introduction to hardscape structures in the landscape. Topics include material selection, construction techniques, and fabrication. Students learn to design and construct common hardscape features such as walkways, walls, and decks.

Not part of a Tennessee Transfer Pathway

**HORT 1150 - Soils and Fertilizers**
A study of the physical and chemical properties of soils, soil fertility, and management. Topics include soil formation, classification, testing, fertilizer application, and other amendments. Students learn to analyze, evaluate, and properly amend soils and media for horticultural use.

Not part of a Tennessee Transfer Pathway

**HORT 1160 - Plant Propagation**

3 Credits
3 Class Hours

Topics include methods of sexual and asexual plant propagation used by nursery employees and greenhouse operators.

Not part of a Tennessee Transfer Pathway

**HORT 1210 - Turfgrass Management**

3 Credits
3 Class Hours

A detailed study of turfgrass. Topics include seeding, reproduction, growth and development, species characteristics, fertilization, irrigation practices, pest and disease control, maintenance of golf courses, and recreational lawns. Students learn how to establish and maintain a high-quality turfgrass area.

Not part of a Tennessee Transfer Pathway

**HORT 1310 - Horticultural Pesticides**

3 Credits
3 Class Hours

A study of the identification and control of plant pests including insects, diseases, and weeds. Topics include pest identification and chemical regulation, pesticide application, and safety. Course work will satisfy re-certification point requirements and prepare students to take the Tennessee Commercial Pesticide Applicators License test and the test for certification in Ornamental and Turf (C-3).

Not part of a Tennessee Transfer Pathway

**HORT 1410 - Arboriculture**
A study of the identification, culture, and maintenance of landscape trees and shrubs. Topics include installation, fertilization, pruning, disease and insect control, and physiological problems. Students acquire knowledge in proper arboriculture practices.

Not part of a Tennessee Transfer Pathway

**HORT 1510 - Principles of Mgmt/Horticulture**

3 Credits
3 Class Hours

An introduction to a variety of topics from the areas of business management, customer service, and human resource management as they apply to the horticulture industry.

Not part of a Tennessee Transfer Pathway

**HORT 2010 - Internship I**

1 Credit
Students will work with the program coordinator to intern with a horticultural business best suited to their interests and career goals. Internships include the areas of landscape contracting and maintenance, plant retail/wholesale, garden center/ nursery, turf management, irrigation, pest control and others.

Not part of a Tennessee Transfer Pathway

**HORT 2030 - Seminar**

3 Credits
3 Class Hours

Seminar with readings, roundtable discussion, and writing on the modern world-view of global agricultural practices and the risks that they present. An elective course.

Not part of a Tennessee Transfer Pathway

**HORT 2110 - Landscape Plant Materials II**
HORT 1120 - Advanced Landscape Design

3 Credits
3 Class Hours

A study of residential and commercial landscape design, cost analysis, and installation. Topics include site analysis, design plan, pricing, implementation, and special projects.

Not part of a Tennessee Transfer Pathway

INFS 1000 - Intro to Microcomputing

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to microcomputing tasks and terminology. Topics include input and output, storage, memory, the CPU, and the Windows operating system. Hands-on experience is gained in working with Windows, managing files, managing disks, and exploring the Internet. Prerequisite(s): Level 2 placement in Reading.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

INFS 1010 - Computer Applications

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to the use of microcomputer software in the business environment. Applications include word processing, spreadsheets, database, and presentation software. Prerequisite(s) Level 2 placement in Reading.

Semester Availability: All

LEGL 1300 - Intro to Paralegal Studies
3 Credits
3 Class Hours

An introduction to the work performed by paralegals, regulation of the profession, legal and paralegal ethics, structure of the court systems and survey of substantive areas of law.
Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**LEGL 1330 - Legal Writing**

3 Credits
3 Class Hours

An introduction to skills necessary to create written documents used in the legal workplace.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**LEGL 1320- Legal Research**

3 Credits
3 Class Hours

An introduction to principles of legal research including traditional and online resources.
**Prerequisite(s):** LEGL 1300, LEGL 1330

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**LEGL 2380- Civil Litigation Skills I**

3 Credits
3 Class Hours

An introduction to civil litigation and practices in federal and state courts and practical law office skills.
**Prerequisite(s):** LEGL 1300, 1330

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
**LEGL 1350 - Torts**

3 Credits  
3 Class Hours  
An introduction to state and federal law applicable to civil injury and property damage.  
**Prerequisite(s):** LEGL 1300, LEGL 1330  

Semester Availability: Fall  
Not part of a Tennessee Transfer Pathway

**LEGL 1340 - Family Law**

3 Credits  
3 Class Hours  
An introduction to the substantive and procedural laws in family law with emphasis on paralegal tasks.  
**Prerequisite(s):** LEGL 1300, LEGL 1330  

Semester Availability: Fall  
Not part of a Tennessee Transfer Pathway

**LEGL 2350 - Bankruptcy and Creditor Rights**

3 Credits  
3 Class Hours  
An introduction to bankruptcy procedures with emphasis on paralegal tasks.  
**Prerequisite(s):** LEGL 1300, LEGL 1330  

Semester Availability: Fall, Spring  
Not part of a Tennessee Transfer Pathway

**LEGL 2340 - Property Law**

3 Credits  
3 Class Hours  
Study of real estate law including estates in land, concurrent ownership, and transactions involving the sale and lease of real property. Emphasis placed on information gathering, title search, and preparation of documents used in basic real estate transactions, file management, and real estate closings.  
**Prerequisite(s):** LEGL 1300
Semester Availability: Spring
Not part of a Tennessee Transfer Pathway

**LEGL 1360 - Criminal Law**

- 3 Credits
- 3 Class Hours

Survey of state and federal law of crimes and criminal procedure and the paralegal's role in criminal cases.  
**Prerequisite(s):** LEGL 1300

Semester Availability: Spring
Not part of a Tennessee Transfer Pathway

**LEGL 2322 - Administrative Law**

- 3 Credits
- 3 Class Hours

A study of the issues involving proceedings by administrative agencies with an emphasis on the role of the paralegal. Topics include administrative agencies, administrative procedure, and appeals from administrative decisions.  
**Prerequisite(s):** LEGL 1300

Semester Availability: Fall
Not part of a Tennessee Transfer Pathway

**LEGL 1301 - Legal Ethics & Professionalism**

- 3 Credits
- 3 Class Hours

Students study the Tennessee Rules of Professional Conduct, the unauthorized practice of law, confidentiality, and the various roles a paralegal plays in a law office.  
**Prerequisite(s):** LEGL 1300

Semester Availability: Fall, Spring
Not part of a Tennessee Transfer Pathway

**LEGL 1345 - Elder Law**
A study of the issues involving representation of the elderly and their families with an emphasis of the role of the paralegal. Topics include wills, conservatorships, guardianships, and elder abuse. 
**Prerequisite(s):** LEGL 1300

**Semester Availability: Spring**

**Not part of a Tennessee Transfer Pathway**

**LEGL 2317- Humanitarian Law**

Humanitarian Law aims to explore the ethical and humanitarian issues that arise during armed conflicts. The primary learning goal of Humanitarian Law is to help young people embrace the principles of humanity in their daily lives. **Prerequisite(s):** LEGL 1300

**Semester Availability: Fall**

**Not part of a Tennessee Transfer Pathway**

**LEGL 2305- Law and Medicine**

An introduction to the laws regulating the health care industry; medical research; and emphasis on the paralegal’s role in obtaining and organizing medical records. **Prerequisite(s):** LEGL 1300

**Semester Availability: Fall, Spring**

**Not part of a Tennessee Transfer Pathway**

**LEGL 2310 – Corporate Law**

This course includes the study of corporations, limited liability companies, and other forms of businesses. Students prepare documents related to these forms of business. **Prerequisite(s):** LEGL 1300
LEGL 2320 – Employment Law

3 Credit
3 Class Hours

This course provides an overview of substantive areas of employment law, including employment discrimination, sexual harassment, the Americans with Disabilities Act (ADA), the Family Medical Leave Act (FMLA), and privacy issues in the workplace. Prerequisite(s): LEGL 1300

LEGL 2391 - Co-op I

1.5 or 3 Credits
20+ Contact Hours Per Week

Internship in a legal work environment that provides on-the-job work experience while earning credit. Earn from 1.5 to 3.0 student credit hours. Apply skills and knowledge learned in paralegal courses in a private legal practice or governmental agency. Prerequisite(s): Permission from Instructor

Semester Availability: All

Not part of a Tennessee Transfer Pathway

LEGL 2392 - Co-op II

1.5 or 3 Credits
20+ Contact Hours Per Week

Internship in a legal work environment that provides on-the-job work experience while earning credit. Earn from 1.5 to 3.0 student credit hours. Apply skills and knowledge learned in paralegal courses in a private legal practice or governmental agency. Prerequisite(s): Permission from Instructor

Semester Availability: All

Not part of a Tennessee Transfer Pathway

LOGI 1000 - Supply Chain Management

3 Credits
3 Class Hours

A study of the basic concepts of supply chain management emphasizing the economic significance of distribution to business and the U.S. economy. Topics include the interrelationship between logistics and other areas of business and how logistics can significantly impact customer loyalty by adding value.
LOGI 1010 - Transportation Management

3 Credits
3 Class Hours

An introduction to traffic management functions including mode and carrier selection. Cost models for transportation and reasons for selecting a given shipping method are discussed. All models of transportation and transit times will be explored with frequent use of case-based instruction.

LOGI 1030 - Warehouse & Inventory Mgmt

3 Credits
3 Class Hours

An analysis of warehousing functions and management. Topics include facility location and operation, labor relations, financial analysis, and productivity improvement and measurement.

LOGI 2010 – Supply Chain Technology

3 Credits
3 Class Hours

An introduction to the various technology used in the supply chain industry and how the technology impacts supply chain functionality. Topics include data management systems, voice picking systems, 3D printing, cloud technology and RFID. Prerequisite(s): INFS 1010

LOGI 2020 - Intl Trans & Logistics
Provides an understanding of the logistics processes required in moving goods and people across international boundaries, the transportation modes used in such movement, and current logistics issues in the global environment. **Prerequisite(s):** INFS 1010

**Semester Availability:** Fall

Not part of a Tennessee Transfer Pathway

**LOGI 2030 - Operations Management**

3 Credits
3 Class Hours

Examines operations management concepts, tools, and practices for designing, planning, controlling, and improving manufacturing and service organizations. Emphasizes the use of operations strategy to gain competitive advantage. Topics include facility location and layout design, forecasting, queuing models, inventory management, enterprise resource planning, production systems, and quality assurance.

**Semester Availability:** Fall

Not part of a Tennessee Transfer Pathway

**LOGI 2040 - Purchasing Principles**

3 Credits
3 Class Hours

Course covers the basics of purchasing management. Topics include the challenge of purchasing and materials management, objectives and organization functions, specification, quality control and inspection, computerization, and quality considerations.

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**LOGI 2050 - Logi & Supply Chain Strategy**

3 Credits
3 Class Hours
A study of the strategic and tactical decisions throughout the logistics and supply chain management processes. Topics include the supply chain concept; obtaining a competitive advantage through supply chain management; techniques to measure, improve, and manage supply chain performance; the effect of interdependent activities and firms on overall performance and behavior; inventory management approaches; trade-offs made in managing supply chain activities; the role of logistics management and its effect on supply chain performance; and safety and risk management.

**Prerequisite(s):** This course should be taken during the last semester before graduation after all other required LOGI courses have been successfully completed or are concurrently being completed.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

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**MATH 0810 - Learning Support Math I**

3 Credits
3 Class Hours

Prepares students with the necessary skills to be successful in college-level mathematics by providing multiple representations of application and problem-solving. Topics include operations with real numbers and algebraic expressions, analysis of graphs, linear functions, linear equations and inequalities, basic statistics and probability, and unit conversions. This course is only available for those students enrolled in certificate programs that do not require college level math but that do require learning support competencies in math. **Prerequisite(s):** Level 1 placement in Math.

Semester Availability: As needed

Not part of a Tennessee Transfer Pathway

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**MATH 0815 – Algebra Support**

1 Credit
2 Class Hours

A co-requisite course that prepares students with the necessary skills to be successful in the co-requisite on-ground MATH 1000: Foundations of Algebra by providing additional support in mathematical skill development along with application and problem-solving. Topics include operations with real numbers and algebraic expressions, operations with polynomials, solving equations, and analyzing and graphing linear functions. **Prerequisite(s):** Level 1 placement in Math. **Corequisite(s):** MATH 1000: Foundations of Algebra.

**Note:** Successful completion of MATH 1000 will be required to earn successful completion in MATH 0815.

Semester Availability: All

Not part of a Tennessee Transfer Pathway
MATH 0820 - Learning Support Math II

2 Credit Hours
2 Class Hours

This class is a continuation of MATH 0810, Learning Support Math I. This course is only available for those students enrolled in certificate programs that do not require college level math but that do require learning support competencies in math. Prerequisite(s): Successful completion of three competencies in Math 0810.

Semester Availability: As needed

Not part of a Tennessee Transfer Pathway

MATH 0825 - Liberal Arts Math Support

1 Credit
2 Class hours

A co-requisite course that prepares students with the necessary skills to be successful in the co-requisite on-ground MATH 1010: Math for Liberal Arts by providing additional support in mathematical skill development along with application and problem-solving. Topics include operations with real numbers and algebraic expressions, solving equations, and analysis of graphs. Prerequisite(s): Level 1 placement in Math. Corequisite(s): MATH 1010: Math for Liberal Arts.

Note: Successful completion of MATH 1010 will be required to earn successful completion in MATH 0825.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

MATH 0830 - Learning Support Math III

1 Credit
1 Class Hour

This class is a continuation of MATH 0810, Learning Support Math I. This course is only available for those students enrolled in certificate programs that do not require college level math but that do require learning support competencies in math. Prerequisite(s): Successful completion of four competencies in Math 0810.

Semester Availability: As needed

Not part of a Tennessee Transfer Pathway
MATH 0835 - Statistics Support

1 Credit
2 Class Hours

A co-requisite course that prepares students with the necessary skills to be successful in the co-requisite on-ground MATH 1530 - Probability/Statistics by providing additional support in mathematical skill development along with application and problem-solving. Topics include operations with real numbers and algebraic expressions, analysis of graphs, basic statistics and probability, and unit conversions. 

Prerequisite(s): Level 1 placement in Math. Corequisite(s): MATH 1530 - Probability/Statistics

Note: Successful completion of MATH 1530 will be required to earn successful completion in MATH 0835.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

MATH 0845 – Finite Math Support

1 Credit
2 Class Hours

A co-requisite course that prepares students with the necessary skills to be successful in the co-requisite on-ground MATH 1630: Finite Mathematics by providing additional support in mathematical skill development along with application and problem-solving. Topics include operations with real numbers and algebraic expressions, analysis of graphs, linear equations and inequalities, exponents, and interval notation. Prerequisite(s): Level 1 placement in Math. Corequisite(s): MATH 1630: Finite Mathematics.

Note: Successful completion of MATH 1630 will be required to earn successful completion in MATH 0845.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

MATH 1000 - Foundations of Algebra

3 Credits
3 Class Hours

This course is designed to prepare students to have the necessary skills to be successful in algebra intensive college-level mathematics courses. The curriculum provides multiple representations of applications and problem-solving, both algebraically and with the aid of technology. Topics include performing operations with polynomials and rational expressions; analysis of quadratic and rational
functions and graphs; solving quadratic, rational, and radical equations; and graphing and evaluating polynomial and exponential functions. **Prerequisite(s):** Level 2 placement in Math or concurrent enrollment in MATH 0815.

**Note:** This course will not satisfy general education math requirements for associate degrees or technical certificates.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**MATH 1010 - Math for Liberal Arts***

3 Credits
3 Class Hours

An introductory mathematics course for non-science majors emphasizing applications. Topics include problem-solving, sets, logic, algebra, probability, statistics, consumer mathematics, and finance. **Prerequisite(s):** Level 2 placement or higher in Math or concurrent enrollment in MATH 0825.

Semester Availability: All

* This course is part of the general education core.

**MATH 1130 - College Algebra***

3 Credits
3 Class Hours

A traditional college algebra course for non-science majors. Topics include rational and exponential expressions, the concept of functions and their inverses, linear functions and equations including equations with radicals and absolute values, quadratic functions and equations, exponential and logarithmic functions and equations, graphs of basic functions, systems of equations, and inequalities. **Prerequisite(s):** Initial Level 2 placement or higher in Math or MATH 1000.

Semester Availability: All

* This course is part of the general education core.

**MATH 1410 - Math for Elem Education I**

3 Credits
3 Class Hours
An introductory first course in math for elementary education, which is restricted to students majoring in Elementary or Early Childhood Education. Topics include tools for problem-solving, sets and operations on sets, functions, logic, numeration system, algebra-based study of properties of and operations with whole numbers, integers, rational numbers, and real numbers. **Prerequisite(s):** Initial Level 2 placement or higher in Math or MATH 1000.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**MATH 1420 - Math for Elem Education II**

3 Credits
3 Class Hours

A continuation of MATH 1410 and the second course in math for elementary education, which is restricted to students majoring in Elementary or Early Childhood Education. Topics include introductory elements of probability and statistics and the basic concepts of Euclidean geometry and coordinate geometry including congruence, similarity, measurements, areas, and volumes. **Prerequisite(s):** MATH 1410

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**MATH 1530 - Probability/Statistics***

(Non-Calculus)

3 Credits
3 Class Hours

An introduction to basic concepts and formulas for both descriptive and inferential statistics. Topics include the nature of data, uses and abuses of statistics, methods of sampling, summarizing data, pictures of data, counting techniques, measures of central tendency, measures of variation, measures of position, understanding probability, binomial and normal distributions, central limit theorem, confidence intervals, fundamentals of hypothesis testing for both one and two samples, ANOVA, linear regression, and a brief introduction to nonparametric statistics. **Prerequisite(s):** Level 2 placement or higher in Math or concurrent enrollment in MATH 0835.

Semester Availability: All

* This course is part of the general education core
MATH 1630 - Finite Mathematics*

3 Credits
3 Class Hours

An introduction to mathematical topics applicable to a variety of academic areas. Topics include linear functions and graphs, linear inequalities and graphs, systems of linear equations, matrices and matrix algebra, linear programming, set theory, logic, and conversion between binary, decimal, and hexadecimal. **Prerequisite(s):** Level 2 placement or higher in Math or concurrent enrollment in MATH 0845.

Semester Availability: All

* This course is part of the general education core.

MATH 1710 - Precalculus I*

3 Credits
3 Class Hours

A traditional course in precalculus algebra. Topics include polynomial, radical, rational, exponential, and logarithmic expressions and equations; polynomial, radical, rational, exponential, logarithmic, and logistic functions, graphs, and their applications; polynomial and rational inequalities and their applications; and inverse functions. **Prerequisite(s):** Initial Level 2 placement or higher in Math or MATH 1000.

Semester Availability: All

* This course is part of the general education core.

MATH 1720 - Precalculus II*

3 Credits
3 Class Hours

A traditional course in precalculus trigonometry. Topics include the trigonometric functions and their graphs, right and oblique triangles, degree/radian measure, trigonometric equations, identities, inverse trigonometric functions, vectors, the polar coordinate system, parametric equations, conic sections, and applications. **Prerequisite(s):** Level 3 placement or higher in Math or MATH 1710.

Semester Availability: All

* This course is part of the general education core.

MATH 1730 - Precalculus*
A single introductory course for the preparation for calculus. Topics include an overview of elementary algebra, elementary geometry, introduction to trigonometric functions and inverses, vectors, introduction to complex numbers, exponential and logarithmic functions and equations, solving various types of equalities and inequalities, quadratic equations and functions, systems of linear and nonlinear equations, systems of linear equations, and determinants. **Prerequisite(s):** Initial Level 2 placement or higher in Math, or MATH 1000.

Semester Availability: As needed

* This course is part of the general education core.

**MATH 1830 - Concepts of Calculus**

3 Credits
3 Class Hours

An introduction to calculus without a requirement for trigonometry with applications from business, economics, life sciences, and health sciences. Topics include a survey of limits, continuity, differentiation, integration, related rates, maximum-minimum problems, and exponential growth and decay. **Prerequisite(s):** Level 3 placement or higher in Math, MATH 1710, or MATH 1130.

Semester Availability: All

* This course is part of the general education core.

**MATH 1910 - Calculus & Analytic Geom I**

4 Credits
4 Class Hours

An introductory first course in the traditional three-course calculus sequence. Topics include plane analytical geometry, function theory including limits and continuity, the differential and integral calculus of algebraic, trigonometric, and transcendental functions, curve sketching, maxima and minima, and related rates. **Prerequisite(s):** Level 4 placement in Math, MATH 1720, or MATH 1730.

Semester Availability: All

* This course is part of the general education core.

**MATH 1920 - Calculus & Analytic Geom II**
4 Credits
4 Class Hours

A continuation of MATH 1910 and the second course in the traditional three-course calculus sequence. Topics include a study of the differential and integral calculus of algebraic and transcendental, further exploration of the trigonometric functions, further applications of the definite integral, integration techniques, infinite series, parametric equations, and polar coordinates. **Prerequisite(s):** MATH 1910.

Semester Availability: All

**MATH 2010 - Linear Algebra**

(Formerly Linear Algebra/Matrix Algebra)
3 Credits
3 Class Hours

A traditional introductory linear algebra course. Topics include matrices, determinants, systems of linear equations, vectors, vector spaces, linear transformations, eigenvalues and eigenvectors. **Prerequisite(s):** MATH 1910.

Semester Availability: Spring

**MATH 2110 - Calculus & Analytic Geom III**

4 Credits
4 Class Hours

A continuation of MATH 1920 and the third course in the traditional three-course calculus sequence. Topics include solid analytical geometry, the calculus of more than one independent variable, surfaces and curves in space, cylindrical and spherical coordinate systems, vectors and vector-valued functions, partial derivatives, multiple integrals, and applications. **Prerequisite(s):** MATH 1920.

Semester Availability: Fall

**MATH 2120 - Differential Equations**

3 Credits
3 Class Hours

An introductory first course in differential equations. Topics include linear first-order differential equations, applications, homogeneous linear differential equations, second-order linear equations, systems of differential equations, and the Laplace Transforms. **Prerequisite(s):** MATH 1920.

Semester Availability: Fall
MECH 1100 Electrical Components  
This course is a study of the basic electrical components in a mechatronic system. Topics covered will include basic functions and physical properties of electrical components; the systematic flow of energy and measurement of components; troubleshooting techniques and strategies to identify, localize and correct malfunctions; and systematic preventive maintenance and electrical component safety. Technical documentation such as data sheets, schematics, timing diagrams and system specifications will also be covered.

MECH 1200 – Mechanical Component and Electric Motors  
This course is a study of the basic mechanical components and electrical drives in a mechatronics system. Topics covered will include basic functions and physical properties of mechanical components and electrical AC and DC drives; materials, lubrication requirements and surface properties; troubleshooting techniques and strategies to identify, localize and correct malfunctions; and systematic preventative maintenance and electrical component safety. Technical documentation such as data sheets and specifications of mechanical elements and electrical drives will also be covered.

MECH 1300 – Electro Pneumatic and Hydraulic Control Circuits  
This course covers the basics of pneumatic, electro pneumatic and hydraulic control circuits in a complex mechatronic system. Students will learn the functions and properties of control elements based upon physical principles, and the roles they play within the system. Technical documentation such as data sheets, circuit diagrams, displacement step diagrams and function charts will also be covered. By understanding and performing measurements on the pneumatic and hydraulic control circuits, students will learn and apply troubleshooting strategies to identify, localize and correct malfunctions. Preventive maintenance of (electro) pneumatic and hydraulic components as well as safety issues within the system will be discussed.

MECH 1500 – Digital Fundamentals & PLC's  
This course is a study of basic digital logic and programmable logic controllers (PLCs) in a mechatronics system using the automation system. Topics covered will include basic PLC functions and testing; identification of malfunctioning PLCs; and troubleshooting techniques and strategies to identify and localize PLC hardware generated problems. Emphasis is on writing small programs and problem-solving using computer simulations.

MST 1110 - Fundamentals of Music  
3 Credits  
3 Class Hours  
An introduction to musical concepts as they apply to the commercial music production process. Students will master basic terminology, concepts, and theory, which will enable them to communicate and function effectively in the studio. Topics include genres of popular music, popular song forms, common instrumentation, scales, chords, intervals, and rhythms as they relate to MIDI, digital audio waveforms, and the Nashville Number System.

Semester Availability: All
MST 1130 - Studio Recording I

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to the recording studio. Topics include microphones, analog and digital recorders, the recording console, signal processing, and recording techniques.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

MST 1140 - MIDI I

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to basic MIDI (Musical Instrument Digital Interface) concepts and techniques. Topics include keyboards, sound modules, controllers, virtual instruments, beats, sequencing, and MIDI production techniques.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

MST 1210 - The Business of Music

3 Credits
3 Class Hours

An introduction to occupations and businesses in the music industry and how they interact. Topics include record companies, management, songwriting, publishing, touring, merchandising, and career opportunities.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

MST 1220 - Songwriting I
3 Credits
3 Class Hours

An introduction to basic songwriting. Topics include lyric and melody construction, working with music publishers and performance rights organizations. Professionally written songs and students' songs are analyzed in class.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MST 1230 - Studio Recording II**

3 Credits
2 Class Hours, 2 Lab Hours

A continuation of MST 1130. Topics include digital audio, tape machine alignment, mixing, stereo microphone techniques, and the creative use of signal processors. **Prerequisite(s):** MST 1130

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MST 1240 - Digital Audio Production I**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to computer-based music and audio production. Topics include digital audio workstation technology, system setup, music editing, working with loops, mix automation, and DAW production techniques.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MST 1260 - MIDI II**

3 Credits
2 Class Hours, 2 Lab Hours

A continuation of MST 1140. Topics include software virtual instruments, editing, and advanced MIDI sequencing and production techniques. **Prerequisite(s):** MST 1140
MST 1300 - Music Industry Entrepreneur

3 Credits
3 Class Hours

A study of the nature of small business with a special emphasis placed on the music industry. Topics include forms of ownership, franchising, finance/accounting, marketing, leadership, and management. Students prepare a feasibility study that will be applicable to various music business ventures. Operations, the legal environment, and administrative controls are also introduced.

MST 1310 - Music Marketing

3 Credits
2 Class Hours, 2 Lab Hours

An overview of the marketing tools and strategies employed in traditional and digital music marketing. Marketing, promotion, distribution, and possible income streams are explored. **Prerequisite(s):** MST 1210

MST 1320 - Songwriting II

3 Credits
3 Class Hours

A continuation of MST 1220. Topics include co-writing, demo production, and writing for specialty markets. **Prerequisite(s):** MST 1220
MST 1330 - Studio Maintenance

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to studio maintenance. Topics include basic electronics, troubleshooting equipment problems, soldering techniques, and the use of test equipment.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

MST 1340 - Music Publishing I

3 Credits
3 Class Hours

An introduction to the music publishing industry. Topics include self-publishing vs. professional publishing, starting your own publishing company, song plugging, and performance rights organizations.

Semester Availability: All

Not part of a Tennessee Transfer Pathway

MST 1360 - Digital Audio Production II

3 Credits
2 Class Hours, 2 Lab Hours

A continuation of MST 1240. Topics include advanced music production techniques, drum replacement, vocal tuning, advanced editing, synchronization, and audio for video production. Prerequisite(s): MST 1240

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

MST 1370 - Audio Effects Processors
3 Credits
2 Class Hours, 2 Lab Hours

A comprehensive course in software audio effects processors commonly used in digital audio and music production. Emphasis will be placed on the skillful operation and creative use of audio effects processors. **Prerequisite(s):** MST 1240

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MST 1400 - The Art of Mixing**

3 Credits
2 Class Hours, 2 Lab Hours

A practical course in mixing music. Topics include monitoring practices, musical balance, creative editing and effects processing, critical listening, and preparing recordings for mastering. Students will mix a variety of musical styles and develop a mixing portfolio. **Prerequisite(s):** MST 1240 and **Prerequisite(s) or Corequisite(s):** MST 1360, MST 1370

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MST 1410 - Music Publishing II**

3 Credits
3 Class Hours

A continuation of MST 1340. Topics include getting songs to the right people, indie markets and foreign markets. Students write and issue licenses and agreements, and acquire new copyrights. **Prerequisite(s):** MST 1340

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MST 1420 - Mastering**

3 Credits
2 Class Hours, 2 Lab Hours

Mastering is the final creative step in music production, before the manufacturing process. Topics include how mastering has evolved, the relationship of mixing and mastering, business
responsibilities, and modern techniques and equipment. **Prerequisite(s):** MST 1240 and **Prerequisite(s) or Corequisite(s):** MST 1360, MST 1370

 Semester Availability: Fall, Spring

 Not part of a Tennessee Transfer Pathway

**MTEC 1000 - Welding I**

4 Credits
2 Class Hours, 3 Lab Hours

Topics include welding safety, oxyfuel cutting, plasma arc cutting, air carbon arc cutting and gouging, base metal preparation, weld quality, SMAW equipment and setup, SMAW electrodes, beads and fillet welds, joint fit-up and alignment, groove welds with backing, and open V groove welds.

 Semester Availability: Fall

 Not part of a Tennessee Transfer Pathway

**MTEC 1050 - Millwright I**

5 Credits
4 Class Hours, 3 Lab Hours

Topics include millwright hand tools, fasteners and anchors, basic layout, gaskets and O-rings, Oxyfuel cutting, blueprint reading, specialty and power tools, rigging, baseplates and soleplates, lubrication and bearings, couplings, drilling and tapping, shims, packing, and mechanical seals. **Prerequisite(s):** Level 2 placement in Math. Completion of MATH 1630 Highly Recommended

 Semester Availability: Fall

 Not part of a Tennessee Transfer Pathway

**MTEC 1060 - Millwright II**

5 Credits
4 Class Hours, 3 Lab Hours

Topics include specialty fixtures and jigs, belt and chain drives, fans and blowers, bearings and seals, conveyers, pumps, compressors, pneumatics, hydraulics, gearboxes, laser alignment, optical alignment, turbines, electric motors, and vibration analysis. **Prerequisite(s):** MTEC 1050

 Semester Availability: Spring
Not part of a Tennessee Transfer Pathway

**MTEC 2050 - Pipefitting I**

4 Credits  
3 Class Hours, 2 Lab Hours

Topics include pipefitting hand and power tools, oxyfuel cutting, ladders and scaffolds, motorized equipment, drawings and detail sheets, identifying and installing valves, threaded pipe fabrication, socket weld pipe fabrication, butt weld fabrication, excavations, and underground pipe installation. **Prerequisite(s):** Level 2 placement in Math.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**MTEC 2060 - Pipefitting II**

5 Credits  
4 Class Hours, 3 Lab Hours

Topics include rigging, motorized equipment, aboveground pipe installation, field routing and vessel trim, pipe hangers and supports, testing piping systems, advanced pipe fabrication, aligning, steam traps, in-line specialties, hot taps, maintaining valves, and supervisory skills. **Prerequisite(s):** MTEC 2050

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**MUS 1010 - Materials of Music**

3 Credits  
3 Class Hours

An introduction to music notation and the basics of music theory. Topics include keys, scales, simple chords, and practice in listening skills. **Note:** MUS 1010 is a technical course about music. Students who wish to take a humanities course should consider MUS 1030.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MUS 1014 - Class Voice**
1 Credit
2 Class Hours

An introduction to basic vocal skills, such as breath control and tone production.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MUS 1020 - Music Theory I**

3 Credits
3 Class Hours

A survey of the grammar of music with emphasis on diatonic harmony, including the major and minor chords and their inversions, and part-writing. **Prerequisite(s):** MUS 1010 or instructor permission. **Co-requisite(s):** MUS 1025

Semester Availability: Every other Spring

**MUS 1021 - Music Theory II**

3 Credits
3 Class Hours

A continuation of MUS 1020. **Prerequisite(s):** MUS 1020. **Co-requisite(s):** MUS 1026

Semester Availability: Every other Fall

**MUS 1024 – Jazz Ensemble**

1 Credit
3 Class Hours

A performing organization providing instruction and experience in playing jazz.

Semester Availability: Fall, Spring

**MUS 1025 - Aural Skills I**

1 Credit
1 Class Hour

A lab developing ear-training skills, including sight-singing and music dictation. **Prerequisite(s):** MUS 1010 or instructor permission. **Co-requisite(s):** MUS 1020
Semester Availability: Every other Spring

**MUS 1026 - Aural Skills II**

1 Credit
1 Class Hour

A continuation of the ear-training skills developed in Aural Skills I. **Prerequisite(s):** MUS 1025. **Co-requisite(s):** MUS 1021

Semester Availability: Every other Fall

**MUS 1030 - Music Appreciation***

3 Credits
3 Class Hours

A survey of music from the Middle Ages, the Renaissance, the 18th and 19th centuries, and modern times. Topics include folk music, popular music, world music, music theory, and cultural and historical influences. **Prerequisite(s):** Level 1 placement in English; Level 2 placement in Reading or concurrent enrollment in READ 0815. **Note:** MUS 1030 meets the general education requirement for Humanities.

Semester Availability: All

* This course is part of the general education core.

**MUS 1040 - Class Guitar**

1 Credit
3 Class Hours

Basic instruction in guitar with emphasis on classical and popular guitar techniques and reading standard music notation and chord charts. Ownership or rental of a guitar is required.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**MUS 1041 – Applied Guitar**

2 Credits
2 Class Hours
Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

**Semester Availability:** Fall, Spring as needed

**MUS 1042 – Applied Voice**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

**Semester Availability:** Fall, Spring as needed

**MUS 1043 – Applied Piano**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

**Semester Availability:** Fall, Spring as needed

**MUS 1044 – Applied Percussion**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all
students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1045 – Applied Woodwinds**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1046 – Applied Euphonium**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1047 – Applied French Horn**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.
MUS 1048 – Applied Trombone

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. Note: This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

MUS 1049 – Applied Trumpet

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. Note: This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

MUS 1050 – Applied Tuba

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. Note: This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed
MUS 1051 – Applied Bass

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. Note: This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

MUS 1052 – Applied Cello

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. Note: This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

MUS 1053 – Applied Viola

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. Note: This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

MUS 1054 – Applied Violin

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1055 – Applied Bassoon**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1056 – Applied Clarinet**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1057 – Applied Flute**

2 Credits
2 Class Hours
Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1058 – Applied Oboe**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1059 – Applied Saxophone**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1060 – Applied Harp**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill
requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1061 – Applied Organ**

2 Credits
2 Class Hours

Private instruction in a performance-based environment. Courses consist of individual instruction one hour per week and a group seminar one hour per week. **Note:** This course may be repeated by all students and must be repeated three times by students who are earning the A.F.A. in Music. To fulfill requirements for the A.F.A. in Music, students must complete eight (8) hours of applied lessons and four (4) hours of ensembles appropriate to applied area.

Semester Availability: Fall, Spring as needed

**MUS 1307 - College Choir**

1 Credit
3 Class Hours

A mixed ensemble performing in a variety of musical genres.

Semester Availability: Fall, Spring

**MUS 2020 - Music Theory III**

3 Credits
3 Class Hours

A survey of advanced music with emphasis on chromatic harmony, modulation, 20th-century harmony, part-writing, and ear-training. **Prerequisite(s):** MUS 1021. **Co-requisite(s):** MUS 2025

Semester Availability: Every other Spring

**MUS 2021 - Music Theory IV**
3 Credits
3 Class Hours

A continuation of Music Theory III. Prerequisite(s): MUS 2020. Co-requisite(s): MUS 2026

Semester Availability: Every other Fall

Not part of a Tennessee Transfer Pathway

MUS 2025 - Aural Skills III

1 Credit
1 Class Hour

A continuation of the ear-training skills further developed in Aural Skills II. Prerequisite(s): MUS 1026. Co-requisite(s): MUS 2020

Semester Availability: Every other Spring

MUS 2026 - Aural Skills IV

1 Credit
1 Class Hour

A continuation of the ear-training skills further developed in Aural Skills III. Prerequisite(s): MUS 2025. Co-requisite(s): MUS 2021

Semester Availability: Every other Fall

Not part of a Tennessee Transfer Pathway

MUS 2111 - History of Popular Music

3 Credits
3 Class Hours

A survey of American popular styles and their origins. Topics include jazz, country, ragtime, blues, rock, and soul. Prerequisite(s): Level 2 placement in English and Reading.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
MUS 2131 - Class Piano I

1 Credit
3 Class Hours

An introduction to the piano for music majors and non-music majors. This class is the first course in the four-semester class piano sequence to prepare students to pass their piano proficiency requirements.

Semester Availability: Fall, Spring

MUS 2132 - Class Piano II

1 Credit
3 Class Hours

A continuation of Class Piano I and the second course in the four-course piano sequence. Prerequisite(s): MUS 2131

Semester Availability: Fall, Spring

MUS 2133 - Class Piano III

1 Credit
3 Class Hours

A continuation of Class Piano II and the third course in the four-course piano sequence. Prerequisite(s): MUS 2132

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

MUS 2134 - Class Piano IV

1 Credit
3 Class Hours

A continuation of Class Piano III and the fourth in the four-course piano sequence. Prerequisite(s): MUS 2133
Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**NSCC 1000 - College Success**

3 Credits  
3 Class Hours

Designed to empower students to reach their educational and career goals; introduces students to strategies, techniques, and self-management tools commonly recognized to lead to success. Topics include education/career goal-setting and success strategies, campus resources, use of technology, and beginning research skills. This course is available to all students for college-level credit.

**OAD 1100 - Keyboarding/Formatting**

3 Credits  
3 Class Hours

An introductory keyboarding course using computers with emphasis on technique, mastery of the keyboard, and speed building. Students are guided through touch-typing and speed building exercises with software that immediately calculates speed and accuracy. Also includes formatting of basic business documents.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**OAD 1116 - Business English**

3 Credits  
3 Class Hours

A course emphasizing the rules and accepted practices of English grammar in the contemporary business office. Emphasis on grammar, proofreading, and editing documents. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway
OAD 1117 - Business Communications

3 Credits
3 Class Hours

A course focusing on the importance of developing good oral and written communication skills. Topics include verbal vs. nonverbal communication, cultural impact on communication, the writing process and techniques, communicating in the professional environment, writing effective correspondence, and formal reports with assignments to help improve writing, listening, nonverbal, and speaking skills. **Prerequisite(s):** INFS 1010 with a grade of “C” or higher. Level 2 placement in English and Reading. **Note:** Office Administration majors should complete OAD 1116 before enrolling in OAD 1117.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

OAD 1225 - Word

3 Credits
3 Class Hours

A course designed to expand the student’s skill with Microsoft® Word. Topics include tabs, manipulating text, formatting, sections, headers and footers, tables, columns, forms, mail merge, table of contents and indexes, styles, and basic graphics. **Prerequisite(s):** OAD 1100 and INFS 1010 with a grade of “C” or higher

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

OAD 1235 - Excel®

3 Credits
3 Class Hours

A course designed to expand the student's skill with Microsoft® Excel®. Topics include formatting and customizing worksheets, building formulas and functions, creating and editing charts, and exchanging data with other programs. **Prerequisite(s):** INFS 1010 with a grade of "C" or higher

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

OAD 2000 - Creating a Professional You
A one-hour course emphasizing business communication skills needed in the search for employment. Topics include personal resume creation, interview skills, and employment-related document creation (letters of application, interview thank-you and follow-up, letter/message of job-offer acceptance). Students will also survey communication soft-skills key to employment relationships. **Note:** This class will not apply toward an AAS in Office Administration. **Prerequisite(s):** Level 2 placement in English and Reading.

Semester Availability: Fall, Spring

**OAD 2125 - Access®**

3 Credits
3 Class Hours

A course designed to expand the student's skill with Microsoft® Access®. Topics include creating and modifying tables, queries, forms, and reports, as well as organizing and managing databases. Students will design and create an original database for the office. **Prerequisite(s):** INFS 1010 with a grade of "C" or higher

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OAD 2840 - Office Procedures**

3 Credits
3 Class Hours

A course designed to prepare students to meet the challenges and opportunities presented by today’s evolving offices. Students complete projects that require critical thinking, teamwork, and interpersonal and leadership skills while applying appropriate procedures to manage the administrative functions of an office. **Prerequisite(s):** OAD 1117

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OAD 2950 - Office Professional Capstone**

3 Credits
3 Class Hours
A second-year capstone course that emphasizes the integration of the student's knowledge and application of office skills. Topics include office-related assignments using word processing, database, spreadsheet, and presentation software, as well as appropriate office procedures. An exit exam will be administered at the end of the semester as a means of assessing program outcomes. This course should be taken during the last semester before graduation. **Prerequisite(s):** OAD 1116, OAD 1117, OAD 1225, OAD 1235, OAD 2125 and OAD 2840

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway
OTA 1110 - Occupational Human Development

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of performance and growth in areas of occupation (social participation, ADL, education, work, play and leisure) in normal development from conception to death. Topics include developmental milestones in performance skills through the life span. **Prerequisite(s):** BIOL 2010; English Level 2 placement, Reading Level 2 placement. **Corequisite(s):** ENGL 1010; PSYC 1030

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

OTA 1120 - Exploring Occupation

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of the concept of occupation across cultures and life span. Topics include occupational analysis and selection, adaptation and sequencing of purposeful/meaningful activities. **Prerequisite(s):** English Level 2 placement, Reading Level 2 placement, BIOL 2010. **Corequisite(s):** ENGL 1010; PSYC 1030

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

OTA 1130 - Foundations of OT

2 Credits

A study of the basic tenets of occupational therapy. Topics include the history and the role of occupation to health and human diversity, philosophy of occupational therapy, theories, ethics, standards of practice and professional associations. **Prerequisite(s):** English Level 2 placement, Reading Level 2 placement, BIOL 2010. **Note:** Course is offered only online. **Corequisite(s):** ENGL 1010; PSYC 1030

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

OTA 1140 - OT Doc with FW A
2 Credits  
1 Lecture Hour, 1 Field Experience

A study of the documentation of the OT treatment process and a Level I Fieldwork. **Prerequisite(s):** English Level 2 placement, Reading Level 2 placement, BIOL 2010. **Prerequisite or Corequisite:** ENGL 1010 - English Composition I*.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OTA 1150 - Med Term for OT**

1 Credit  
Web-based course introducing the OTA student to the terminology used in the medical profession. **Prerequisite(s):** English Level 2 placement, Reading Level 2 placement, BIOL 2010. **Note:** Course is offered only online.

Not part of a Tennessee Transfer Pathway

**OTA 1210 - Group Process and Dynamics**

3 Credits  
2 Lecture Hours, 3 Lab Hours

A study of client-practitioner interactions. Topics include professional behaviors, therapeutic use of self, and group process and dynamics. **Prerequisite(s):** PSYC 1030, OTA 1110, OTA 1130.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**OTA 1220 - Challenges to Mental Health**

3 Credits  
2 Lecture Hours, 3 Lab Hours

A study of individuals who are limited in their ability to engage in life activities due to challenges to their mental health. Topics include major DSM IV diagnoses with emphasis on symptoms, behaviors, cultural influences, and medical and social supports related to those diagnoses, OT evaluations and treatment planning for the mental health population are practiced. **Prerequisite(s):** OTA 1110, OTA 1130.

Semester Availability: Spring
OTA 1230 - Challenges to Physical Health

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of individuals who are limited in their ability to engage in daily life activities due to challenges to their physical health. Topics include major medical, orthopedic, and neurological diagnoses, with emphasis on symptoms, physical conditions, and medical and social supports related to those diagnoses. OT evaluations and treatment planning for the physical health population are practiced. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150.

Semester Availability: Spring

OTA 1240 - Human Movement for Occupation

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of kinetics of human motion of the musculoskeletal system. Topics include evaluation procedures for range of motion, functional muscle strength and coordination testing, principles and techniques of body mechanics, transfers, and positioning, and neuromotor and myofascial treatment concepts. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150.

Semester Availability: Spring

OTA 1250 - Asst Tech and Env Adaptation

3 Credits
1 Lecture Hour, 4 Lab Hours

A study of adapting, altering or designing environments that support participation and facilitate engagement in social, family and community activities. All levels of assistive technology will be reviewed and discussed. Topics include but are not limited to home modifications, driving evaluations, communication devices and community mobility. Students will evaluate participation limitations and facilitators for individuals and communities. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150.
OTA 1260 - OT Doc with FW B

2 Credits
1 Lecture Hour, 1 Field experience

Opportunity for the OTA student to apply academic knowledge of occupational therapy to practice through a Level I Fieldwork experience. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150.

Semester Availability: Spring
Not part of a Tennessee Transfer Pathway

OTA 2110 - OT Interv and Treat/Pediatric

2 Credits
1 Lecture Hour, 3 Lab Hours

A study of limitations and obstacles to occupational engagement (self-care, play, school) for persons from birth to age 22. Topics include Common diagnoses, evaluation methods and treatment environments and treatment for areas of occupation. (ADL, IADL, education, work, play, leisure, and social participation), considering performance skills, performance patterns, client factors and context will be reviewed. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150, OTA 1210, OTA 1220, OTA 1230, OTA 1240, OTA 1250, OTA 1260.

Semester Availability: Fall
Not part of a Tennessee Transfer Pathway

OTA 2120 - OT Int and Tx: Mental Health

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of mental health limitations and obstacles to occupational engagement for individuals and populations. Topics include common diagnoses and treatment environments, treatment for areas of occupation. (ADL, IADL, education, work, play, leisure, and social participation), considering
performance skills, performance patterns, client factors and context will be reviewed. Students will be required to develop applications for enabling function and mental health well-being. Prerequisite(s): OTA 1110, OTA 1130, OTA 1210, OTA 1220.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OTA 2130 - OT Int and Tx: Adult**

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of physical health limitations and obstacles to occupational engagement for individuals and populations. Topics include common diagnoses and treatment environments, treatment for areas of occupation. (ADL, IADL, education, work, play, leisure, and social participation), considering performance skills, performance patterns, client factors and context will be reviewed. Students will be required to develop applications for enabling function and physical well-being. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150, OTA 1210, OTA 1220, OTA 1230, OTA 1240, OTA 1250, OTA 1260.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OTA 2145 Practical App. Of Occupations**

3 Credits
2 Lecture Hours, 3 Lab Hours

A study of physical and mental health limitations and obstacles to occupational engagement for individuals and populations. Topics include common diagnoses and treatment environments, treatment for areas of occupation. (ADL, IADL, education, work, play, leisure, and social participation), considering performance skills, performance patterns, client factors and context will be reviewed. Students will be required to develop applications for enabling function and mental health and physical well-being. Prerequisite(s): OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150, OTA 1210, OTA 1220, OTA 1230, OTA 1240, OTA 1250, OTA 1260.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OTA 2150 - Mngmt Skills for the OTA**
2 Credits
A study of management skills with an emphasis on organization and professional communication skills necessary for team building, leadership and collaboration. Topics include program planning, marketing, advocacy and program quality improvement. Documentation, reimbursement, ethical and legislative issues will be addressed. This class will review requirements for Level II Fieldwork, certification and licensure. Students will prepare for future employment through resume and portfolio development. **Prerequisite(s):** OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150, OTA 1210, OTA 1220, OTA 1230, OTA 1240, OTA 1250, OTA 1260. **Note:** Course is offered only online.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OTA 2160 - Fieldwork C**

1 Credit
Opportunity for the OTA student to apply academic knowledge of occupational therapy to practice through a Level I Fieldwork experience. **Prerequisite(s):** OTA 1110, OTA 1120, OTA 1130, OTA 1140, OTA 1150, OTA 1210, OTA 1220, OTA 1230, OTA 1240, OTA 1250, OTA 1260. **Note:** Course is Fieldwork only.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**OTA 2210 - Level II A**

6 Credits
First eight-week fieldwork experience designed to provide the OTA student the opportunity to work in an OT setting, under the supervision of an OTR or COTA. Students must meet objectives designed by academic and clinical educators. All academic coursework and program director approval are required. Students must complete and earn a grade of “C” or better in all OTA and General Education coursework and a satisfactory rating on the Professional Behavioral Competence document before approval for Level II placement.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**OTA 2220 - Level II B**

6 Credits
Second eight-week fieldwork experience designed to provide the OTA student the opportunity to work in an OT setting, under the supervision of an OTR or COTA. Students must meet objectives designed
by academic and clinical educators. All academic coursework and program director approval are required. Students must complete and earn a grade of "C" or better in all OTA and General Education coursework and a satisfactory rating on the Professional Behavioral Competence document before approval for Level II placement.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**PHED 1010 - Intro to Health and Wellness**

3 Credits
3 Class Hours

An introduction to concepts and practices for developing and maintaining healthy lifestyles in order to achieve a balance for lifelong wellness including physiological, biological, and psychological processes. Students participate in health, nutrition, and fitness evaluations as well as identify general individual risk factors. Activities include an individualized wellness plan. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement

Semester Availability: All

**PHED 1030 - Walking**

1 Credit
2 Class Hours

A study of and practice in maintaining physical fitness through walking. Topics include the effects of walking on the body.

Semester Availability: All

**PHED 1060 - Weight Training**

1 Credit
2 Class Hours

An introduction to training programs with an emphasis on warm-ups, stretching, individual exercises, running, and the use of weight machines. Encourages the continuation and the self-discipline of exercise.

Semester Availability: All
**PHED 1100 - Karate**

1 Credit  
2 Class Hours  

A study in the fundamental techniques of Isshinryu Karate as well as beginning katas, sparring, and self-defense.

Semester Availability: All

**PHED 1210 - Physical Conditioning**

1 Credit  
2 Class Hours  

A study and practice in maintaining personal physical fitness through strenuous exercise and aerobic activities. Topics include the effects of exercise on the body.

Semester Availability: All

**PHED 1340 - Beginning Yoga**

1 Credit  
2 Class Hours  

Teaches the basics of hatha yoga and emphasizes the basic knowledge and skills related to yoga postures.

Semester Availability: All

**PHED 1350 - Bicycling**

1 Credit  
2 Class Hours  

An introduction to the skills of bicycling, including practical experiences. Provides knowledge about fitness as it is related to bicycling activities.

Semester Availability: All

**PHED 1420 - Karate II**
1 Credit
2 Class Hours

A study in the intermediate techniques of karate and intermediate katas, weapons, sparring, and self-defense. **Prerequisite(s):** PHED 1100 or instructor permission.

Semester Availability: All

**PHED 1430 - Karate III**

1 Credit
2 Class Hours

A study in the advanced techniques of karate. **Prerequisite(s):** PHED 1420

Semester Availability: All

**PHED 1440 - Karate IV**

1 Credit
2 Class Hours

Provides instruction in the advanced techniques of Isshinryu Karate and advanced katas, sparring and self-defense. Also, students learn techniques to teach Isshinryu Karate. **Prerequisite(s):** PHED 1430

Semester Availability: All

**PHED 1450 - Karate V**

1 Credit
2 Class Hours

A continuation of PHED 1440. Topics include Brown belt katas, weapons' katas, advanced sparring techniques, and lower-rated belts.
**Prerequisites:** Karate IV or permission of the instructor

Semester Availability: All

**PHED 1450 - Karate VI**

1 Credit
2 Class Hours

A continuation of PHED 1450. This course is to prepare students to become black belts. Students learn black belt empty hand katas and weapons' katas and extremely advanced sparring techniques. They
assist the instructor in teaching the lower ranked belt. Prerequisites: Karate V or permission of the instructor

Semester Availability: All

**PHED 1470 – Karate VII**

1 Credit
2 Class Hours

This course will prepare some students to become black belts and will prepare them and the students who have already become black belts to teach Isshinryu Karate. Students will continue to learn the most advanced empty hand and weapons katas. Students will assist the instructor in teaching the lower ranks. Prerequisites: PHED 1460 Karate VI or permission of the instructor.

Semester Availability: All

**PHED 1640 - Tennis**

1 Credit
2 Class Hours

A study in the fundamental techniques of tennis: forehand, backhand, volley, and serve. Topics include tennis rules and strategies.

Semester Availability: All

**PHED 1650 - Intermediate Tennis**

1 Credit
2 Class Hours

A study in the intermediate techniques of tennis: topspin and slice fore-hands and backhands, and the different kinds of serves. Topics include singles and doubles strategies as well as the mental aspects of the game. Prerequisite(s): PHED 1640 or instructor permission.

Semester Availability: All

**PHED 2130 - Intro to Physical Education**

3 Credits
3 Class Hours
A study of the history and principles of physical education as they relate to selected physical activities. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement

Semester Availability: All

**PHED 2310 - Community Health**

3 Credits  
3 Class Hours

A study of community health issues. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement

Semester Availability: All

**PHED 2340 - Continuing Yoga**

1 Credit  
2 Class Hours

A study of the more advanced postures of hatha yoga. Topics include other yoga philosophies and breathing practices.

Semester Availability: All

**PHIL 1000 - Critical Thinking**

(Honors Option Offered)

3 Credits  
3 Class Hours

An introduction to the elements of critical thinking as a cognitive process. Topics cover thinking abilities and problem-solving related to issues and concepts drawn from academics, current events, and life experiences. **Prerequisite(s):** Level 1 placement in English and Reading. **Note:** PHIL 1000 is not part of the General Education Core.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway
**PHIL 1010 - Biblical Studies**

This course is designed for students transferring into Belmont University's Nursing Program.

3 Credits  
3 Class Hours  

A survey of the Judeo-Christian canon of scripture from the Hebrew Pentateuch through the Christian New Testament. Emphasizes current scholarly approaches to Biblical texts, the historical, socio-political, and theological context of the canon, and analysis of patterns and themes within the canon. **Prerequisite(s):** Level 2 placement in English and Reading. **Note:** PHIL 1010 is not part of the General Education Core.

Semester Availability: Fall, Spring  

Not part of a Tennessee Transfer Pathway

**PHIL 1030 - Introduction to Philosophy**

(Honors Option Offered)

3 Credits  
3 Class Hours  

An introduction to the historical roots and basic problems of philosophy. Topics include metaphysics, epistemology, value theory (ethics, aesthetics, social/political philosophy), and major figures of Western philosophy. **Prerequisite(s):** Level 2 placement in English or concurrent enrollment in ENGL 1010 and ENGL0815; Level 2 placement in Reading. **Note:** PHIL 1030 meets the general education requirement for Humanities.

Semester Availability: All  

* This course is part of the general education core.

**PHIL 1111 - Introduction to Ethics**

(Honors Option Offered)

3 Credits  
3 Class Hours  

An introduction to the study of moral reasoning and judgment. Topics include the meaning and importance of individual and social morality in human life, the major systems of ethical theory (ethics of virtue, ethics of duty) as they apply to the study of such moral problems as sexual morality,
pornography, abortion, euthanasia, capital punishment, and job discrimination. Prerequisite(s): Level 2 placement in English or concurrent enrollment in ENGL 1010 and ENGL 0815; Level 2 placement in Reading. Note: PHIL 1111 meets the general education requirement for Humanities.

Semester Availability: All

* This course is part of the general education core.

**PHIL 2022 - Philosophy of Religion***

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of major theoretical issues in the philosophy of religion. Topics include the existence of God, the relationship between religion and ethics, the problem of evil, the role of faith, the status of religious language, and the meaning of human life and death. Prerequisite(s): Level 2 placement in English or concurrent enrollment in ENGL 1010 and ENGL 0815; Level 2 placement in Reading. Note: PHIL 2022 meets the general education requirement for Humanities.

Semester Availability: Fall, Spring

* This course is part of the general education core.

**PHIL 2024 - Environmental/Animal Ethics***

(Honors Option Offered)

3 Credits
3 Class Hours

A survey of conceptual and ethical questions in contemporary environmental philosophy. Topics include factory farming, animal testing, global warming, natural resource management, pollution, and philosophical debate over the significance of key concepts such as person, value, and right. Prerequisite(s): Level 2 placement in English or concurrent enrollment in ENGL 1010 and ENGL 0815; Level 2 placement in Reading

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**PHIL 2200 - World Religions***
An introduction to the academic study of comparative religion. Topics include basic elements of religion; strategies for recognizing patterns of similarity and divergence among different religions; and the origins, development, and fundamental beliefs and practices of Hinduism, Taoism, Buddhism, Confucianism, Jainism, Sikhism, Shinto, Judaism, Christianity, and Islam, among others. **Prerequisite(s):** Level 2 placement in English or concurrent enrollment in ENGL 1010 and ENGL0815; Level 2 placement in Reading.  **Note:** PHIL 2200 meets the general education requirement for Humanities.

Semester Availability: Fall, Spring

* This course is part of the general education core.

**PHIL 2300 - Ethics in Medicine**

(Honors Option Offered)

3 Credits
3 Class Hours

An exploration of particular moral and conceptual issues suffusing the practice of health care professionals. Topics include representative instances of actual clinical situations that generate moral concerns and ways to address these dilemmas with the assistance of philosophical reflection.  **Prerequisite(s):** Level 2 placement in English or concurrent enrollment in ENGL 1010 and ENGL0815; Level 2 placement in Reading

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**PHO 1110 - Basic Photography/Photographer**

(formerly Basic Photography)
3 Credits
3 Class Hours

An introduction to the fundamentals of Digital SLR camera operation. Topics include camera controls, exposure, lenses, and composition. A digital SLR camera is required.

Semester Availability: All
PHO 1115 - History of Photography

3 Credits
3 Class Hours

An introduction to the history of photography and critiquing photographs. Topics include new and old imaging techniques, visual literacy, and uses of photography in media and advertising. **Prerequisite(s):** ENGL 1010

Semester Availability: Fall, Spring

PHO 1170 - Business for Photographers

(formerly Business of Photography)

3 Credits
3 Class Hours

An introduction to creating a business in photography. Topics include business licensing, marketing, estimating and invoicing jobs, copyrighting, tax laws and deductions, stock photography, location scouting, and props.

Semester Availability: Fall, Spring

PHO 1210 - Black & White Photography I

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to basic black-and-white photography. Topics include exposure, film processing, printing, composition, and the study of black-and-white photography as an art form. A film SLR camera is required. **Prerequisite(s):** PHO 1110 with a grade of "C" or higher.

Semester Availability: Fall, Spring
**PHO 1230 - Color Lab Fundamentals**

3 Credits  
2 Class Hours, 2 Lab Hours  

An introduction to practical and creative applications of color theory. Topics include shooting and scanning color film, color correction, color management and color printing materials and processes. A film SLR camera is required. **Prerequisite(s):** PHO 1210, COM 1230, and COM 1170 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Fall, Spring  

Not part of a Tennessee Transfer Pathway

**PHO 1240 - Lighting I**

3 Credits  
2 Class Hours, 2 Lab Hours  

An introductory lighting course. Topics include lighting with professional studio equipment, student's battery powered strobes, the use of light meters, stands, and umbrellas both on location and in the studio. A removable flash is required. **Prerequisite(s):** PHO 1110 with a grade of "C" or higher.

Semester Availability: Fall, Spring  

Not part of a Tennessee Transfer Pathway

**PHO 1270 - Portfolio / Photography**

(formerly Portfolio Practicum)  
3 Credits  
2 Class Hours, 2 Lab Hours  

An advanced class providing instruction in the process of how to develop a professional portfolio. Topics include portfolio design, presentation, and self-promotion. **Prerequisite(s):** PHO 1110, PHO 1210, PHO 1230, PHO 1240, PHO 1350, and PHO 1490; COM 2240 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Spring  

Not part of a Tennessee Transfer Pathway

**PHO 1310 - Black & White Photography II**
A continuation of the skills learned in PHO 1210. Students explore more advanced exposure methods, processing, and printing techniques as well as such topics as archival printing, toning, alternative printing processes, and print presentation. **Prerequisite(s):** PHO 1210 with a grade of "C" or higher.

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**PHO 1320 - Creative Color Photography**

3 Credits  
2 Class Hours, 2 Lab Hours

An exploration of advanced photographic and imaging techniques with an emphasis on the creative process. Students will create a series of images to be displayed on campus. **Prerequisites:** COM 2240, PHO 1240 and PHO 1490 with a grade of “C” or higher in all listed prerequisites.

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**PHO 1330 - Alternative Photo Processes**

3 Credits  
2 Class Hours, 2 Lab Hours

An intensive introduction to hand-applied emulsions onto various types of art papers. Students study and work with methods that pre-date silver-gelatin photography. **Prerequisite(s):** PHO 1210 with a grade of "C" or higher.

**Semester Availability:** Fall

Not part of a Tennessee Transfer Pathway

**PHO 1350 - Lighting II**

3 Credits  
2 Class Hours, 2 Lab Hours
An advanced lighting course, with an emphasis on in-studio lighting, environmental portraiture and commercial product photography. Topics include tungsten lighting and studio flash, lenses, exposure calculations, and commercial applications. **Prerequisite(s):** PHO 1240 with a grade of "C" or higher.

**Semester Availability:** Spring

**PHO 1410 - Nature Photography**

3 Credits  
2 Class Hours, 2 Lab Hours

An introduction to field techniques in nature photography. Topics include natural light, composition, close-up photography, and critiquing images created for class. Weather permitting, each meeting consists of a field session and a classroom session. **Prerequisite(s):** PHO 1110 and COM 1230 with a grade of "C" or higher in all listed prerequisites.

**Semester Availability:** Fall

**Not part of a Tennessee Transfer Pathway**

**PHO 1430 - Portrait Techniques**

3 Credits  
3 Class Hours

An introduction to portrait techniques, with emphasis on posing for male, female, group, and couples. Topics include studio lighting, camera equipment and portable outdoor lighting. **Prerequisite(s):** PHO 1110, PHO 1240 and COM 1230 with a grade of "C" or higher in all listed prerequisites.

**Semester Availability:** Fall

**Not part of a Tennessee Transfer Pathway**

**PHO 1470 - Photojournalism**

3 Credits  
2 Class Hours, 2 Lab Hours

An introduction to photojournalism. Topics include techniques and equipment needed when shooting for publication and places an emphasis on producing digital images. **Prerequisite(s):** PHO 1110, PHO 1490, and COM 1230 with a grade of "C" or higher in all listed prerequisites.

**Semester Availability:** Fall
Not part of a Tennessee Transfer Pathway

**PHO 1490 - Advanced Digital Photography**

(formerly Digital Photography)
3 Credits
2 Class Hours, 2 Lab Hours

An in-depth study of capturing and processing digital images using digital asset management strategies with Adobe Lightroom®. Topics include white balance, lenses, exposing to the right, and exporting images with correct color profiles to inkjet and RGB printers. **Prerequisite(s):** PHO 1110, COM 1230, and COM 1170 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**PHO 2000 - Sports Photography**

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to sports photography in the digital age. Topics include equipment, shooting techniques, editing and critiquing photographs for submission, and obtaining press credentials. **Prerequisite(s):** PHO 1110 and COM 1230 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**PHO 2190 - Advanced Digital Printmaking**

3 Credits
3 Class Hours

A continuation of PHO 1490 and COM 2240 using Adobe Photoshop®. Topics include advanced color management, advanced digital manipulation of images, problem-solving, and various printmaking techniques. **Prerequisite(s):** PHO 1490, COM 1230, COM 2240 with a grade of "C" or higher in all listed prerequisites and approval of instructor.

Semester Availability: Spring
PHO 2300 - DSLR Video

3 Credits
2 Class Hours, 2 Lab Hours

An introduction to using a DSLR camera for shooting motion/video. Topics include camera settings, capturing audio, using additional support equipment and telling a story through video. A digital SLR camera that captures video is required. **Prerequisite(s):** PHO 1110 or COM 1190 with a grade of "C" or higher in all listed prerequisites.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

PHO 2850 - Special Topics

3 Credits
2 Class Hours, 2 Lab Hours

An independent and in-depth exploration of advanced photography techniques. Students develop a cohesive body of work while refining their technical skills. **Prerequisite(s):** Students must have completed a minimum of 30 credit hours in PHO courses with a grade of "C" or higher in all PHO courses. Instructor approval required.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

PHO 2900 - Special Topics B/W Darkroom

3 Credits
2 Class Hours, 2 Lab Hours

An independent and in-depth exploration of the black and white darkroom. Students will develop a project and produce a cohesive body of prints while refining their darkroom skills. **Prerequisite(s):** PHO 1210 with a grade of "C" or higher or comparable experience.

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway
PHYS 2010 - Non-Calculus Based Physics I*

4 Credits
3 Class Hours, 3 Lab Hours

An algebra/trigonometry-based course in the concepts and principles of mechanics, fluids, heat, and thermodynamics. **Prerequisite(s):** Level 4 placement in Math, MATH 1720 or MATH 1730

Semester Availability: All

* This course is part of the general education core.

PHYS 2020 - Non-Calculus Based Physics II*

4 Credits
3 Class Hours, 3 Lab Hours

An algebra/trigonometry-based course in the concepts and principles of wave motion, sound, electricity and magnetism, light and optics, and elements of modern physics. **Prerequisite(s):** PHYS 2010

Semester Availability: All

* This course is part of the general education core.

PHYS 2110 - Calculus Based Physics I*

4 Credits
3 Class Hours, 3 Lab Hours

A calculus-based course in the concepts and principles of mechanics, fluids, heat, and thermodynamics. This course is intended to serve students who plan to major in science or engineering at the four-year college level. **Prerequisite(s):** MATH 1910

Semester Availability: Fall

* This course is part of the general education core.

PHYS 2120 - Calculus Based Physics II*

4 Credits
3 Class Hours, 3 Lab Hours
A calculus-based course in the concepts and principles of wave motion, sound, electricity and magnetism, light and optics, and the elements of modern physics. This course is intended to serve students who plan to major in science or engineering at the four-year college level. **Prerequisite(s):** PHYS 2110

Semester Availability: Spring

* This course is part of the general education core.

**PLAW courses now under LEGL**

**POLS 1030 - American Government***

(Formerly American National Government)

3 Credits

3 Class Hours

An introduction to foundations and principles of American national government such as constitutional principles, functions, and administration of American national government, Congress, the Presidency, the Supreme Court, and the U.S. political system. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement. **Note:** POLS 1030 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**POLS 1111 - Intro to Political Science**

3 Credits

3 Class Hours

An introduction to classic thinkers in political science and essential concepts in Western political thought. Topics include democracy, rights, sovereignty, republicanism, majorities, and minorities. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

Semester Availability: All

**POLS 2010 - State and Local Government***

3 Credits

3 Class Hours
An introduction to politics and administration at the state and local levels. Topics include legislative, judicial, and administrative institutions, processes, and settings and comparisons of major issues. 

Prerequisite(s): English: Level 2 placement, Reading: Level 2 placement

Note: POLS 2010 meets the requirement for a social sciences elective.

* This course is part of the general education core.

POLS 2020 - Survey of European Governments

3 Credits
3 Class Hours

A study and comparison of the governments and politics of England, France, Germany, the European Community and others. Prerequisite(s): English: Level 2 placement, Reading: Level 2 placement.

Note: POLS 2020 meets the requirement for a social sciences elective.

PSCI 1030 - Survey of Physical Science*

4 Credits
3 Class Hours, 3 Lab Hours

This course is a conceptual introduction to physical science using a minimum of mathematics. Topics include Newtonian mechanics, gravitation, waves, sound, electricity, magnetism, heat and optics, and an introduction to modern physics. Prerequisite(s): Level 2 placement in Math and Reading.

Semester Availability: All

* This course is part of the general education core.

PSYC 1030 - General Psychology*

(Formerly PYSC 1111 Intro to Psychology)
(Honors Option Offered)

3 Credits
3 Class Hours

An introduction to the fundamentals of human behavior. Topics include biological bases of behavior, sensation and perception, motivation, learning and memory, maturation and development, personality, and social psychology. Prerequisite(s): English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815. Note: PSYC 1030 meets the requirement for a Social Sciences elective.
Semester Availability: All

* This course is part of the general education core.

**PSYC 2000 - Coping: Addictions/Disorders**

1 Credit
1 Class Hour

Topics include a study of how addictions/disorders impact various aspects of everyday life. Topics include eating disorders, substance abuse, and Internet addiction. **Prerequisite(s):** English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815.

**PSYC 2100 - Educational Psychology**

3 Credits
3 Class Hours

A study and application of the principles of growth and development, learning theory, and assessment techniques in the classroom setting. Motivating and facilitating learning processes in school settings will be emphasized. Field experiences in an approved classroom are required. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement. **Note:** This course is the same as EDUC 2110.

**PSYC 2110 - Psychology of Adjustment**

(Formerly PSYC 1115)
(Honors Option Offered)

3 Credits
3 Class Hours

A study of personal and social adjustment in modern society. Topics include maturing self-concept, healthy interpersonal relationships, constructive management of emotion and stress, and prevention of maladjustment. **Prerequisite(s):** English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815.

Semester Availability: All

**PSYC 2115 - Child & Adolescent Development**

(Formerly PSYC 2120)
3 Credits
3 Class Hours

An examination of children from a developmental perspective. Focuses on how children change as a result of age and experience. Topics include the interplay of biology, experience, and current level of development; how early experiences affect later development; and self-development. Prerequisite(s): English: Level 2 placement, Reading: Level 2 placement.

**PSYC 2120 - Social Psychology**

(Formerly PSYC 2113)
3 Credits
3 Class Hours

A study of the individual in society. Topics include social behavior, socialization, perception, interaction, ethnicity and prejudice, effects of media and mass communication, attitude formation, altruism, and aggression. The methodologies of social psychology are also studied. (This course is the same as SOCI 2113.) Prerequisite(s): English: Level 2 placement, Reading: Level 2 placement. Note: PSYC 2120 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**PSYC 2125 - Abnormal Psychology**

3 Credits
3 Class Hours

A study of major patterns of abnormal behavior and their descriptions and diagnoses, interpretation, treatment, and prevention. Prerequisite(s): English: Level 2 placement, Reading: Level 2 placement, PSYC 1030.

**PSYC 2127 - Psychology of Human Sexuality**

3 Credits
3 Class Hours

An introduction to the study of human sexuality, with an emphasis on empirical research in psychological, biological, and sociological domains. An exploration of theories and current research related to psychological and physiological aspects of human sexuality is incorporated. Topics include reproduction, gender roles, cross-cultural perspectives, and interpersonal relationships. Prerequisite(s): PSYC 1030; English: Level 2 placement, Reading: Level 2 placement.
PSYC 2130 - Life Span Psychology*

(Formerly PSYC 2111 Psy of Human Growth & Dev)
(Honors Option Offered)

3 Credits
3 Class Hours

A survey of the biological and environmental factors influencing the physical, intellectual, social, emotional, and language development from birth until death. Explores causes and results of interruption in or interference with the developmental process. **Prerequisite(s):** English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815. **Note:** PSYC 2130 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

PTEC 1010 - Technical Chemistry

5 Credits
4 Class Hours, 3 Lab Hours

Study of basic chemistry concepts and equipment to instruct prospective process control technicians and chemical operators in proper sampling methods, laboratory techniques, and process monitoring. This applications-based course emphasizes hands-on, practical exercises and experiences both in the laboratory and in an industrial environment. **Prerequisite(s):** Completion of all Learning Support competencies in writing, reading, and math. Completion of MATH 1630 HIGHLY RECOMMENDED.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

PTEC 1020 - Orientation to Indus. Safety

3 Credits
3 Class Hours

An introduction to the safety, health, and environment issues within the process control industry. Topics include the roles and responsibilities of Process Technicians, the environment in which they work, and the equipment and systems in which they operate.

Semester Availability: Fall, Summer

Not part of a Tennessee Transfer Pathway
PTEC 1050 - Intro to Process Control

3 Credits
2 Class Hours, 2 Lab Hours

An introductory course for students entering the Industrial Process Control program. Students will be introduced to physical science topics including solids, liquids, heat transfer, thermodynamics, electronics, and electricity and their significance in Process Control. This class is intended to provide a scientific background in the physics of plant operations, while preparing students for PTEC 1060.

Semester Availability: Fall, Summer

Not part of a Tennessee Transfer Pathway

PTEC 1060 - Process Technology I

4 Credits
3 Class Hours, 2 Lab Hours

An introduction to PT I: Equipment within the PTEC industry. Topics include PTEC industry-related equipment concepts including purpose, components, operation, and the Process Technician’s role for operating and troubleshooting the equipment. Prerequisite(s): PTEC 1050

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

PTEC 1070 - Process Technology II

4 Credits
3 Class Hours, 2 Lab Hours

Study of the interrelation of PTEC equipment and PTEC systems. Students will arrange PTEC equipment into basic systems, describe the purpose and the function of specific PTEC systems, explain how factors affecting PTEC systems are controlled under normal conditions, and recognize abnormal PTEC conditions. Introduces the concept of system and plant economics. Prerequisite(s): PTEC 1060

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

PTEC 1080 - Process Technology III

4 Credits
3 Class Hours, 2 Lab Hours
An introduction to operations within the PTEC industry. Students use existing knowledge of equipment, systems, and instrumentation to understand the operation of an entire unit. Study of concepts related to commissioning, normal startup, normal operations, normal shutdown, turnarounds, and abnormal situations, as well as the Process Technician’s role in performing the tasks associated with these concepts. **Prerequisite(s):** PTEC 1020, PTEC 1070

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**PTEC 2000 - Electrical I**

5 Credits  
4 Class Hours, 3 Lab Hours

Topics include electrical safety, theory, introduction to the NEC, hand bending, raceways and fittings, conductors and cables, basic electrical construction drawings, electrical test equipment, AC theory, conduit bending, terminations and splices, grounding and bonding, circuit breakers and fuses, and control systems. **Prerequisite(s):** Completion of all competencies in Learning Support Math.

**Semester Availability:** Fall

Not part of a Tennessee Transfer Pathway

**PTEC 2010 - Electrical II**

5 Credits  
4 Class Hours, 3 Lab Hours

Topics include calculating conductance, applications of lighting, distribution equipment, transformers, commercial electrical services, motor calculations and controls, healthcare facilities, basic electronic theory, HVAC controls, and introductory skills for the crew leader. **Prerequisite(s):** PTEC 2000

**Semester Availability:** Spring

Not part of a Tennessee Transfer Pathway

**PTEC 2020 - Quality**

3 Credits  
2 Class Hours, 2 Lab Hours

Helps students understand customer expectations in a manufacturing system and continuous improvement methodology. Demonstrates procedures and policies to ensure operating consistency,
reduce variability in the process, reduce waste, and prevent safety incidents. Students use Quality Tools and team problem solving techniques. **Prerequisite(s):** Completion of MATH 1630 HIGHLY RECOMMENDED.

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**PTEC 2050 - Instrumentation I**

5 Credits
4 Class Hours, 3 Lab Hours

Topics include PTEC variables and the various instruments used to sense, measure, transmit and control these variables. Introduces control loops and the elements that are found in different types of loops, such as controllers, regulators, and final control elements. Concludes with a study of instrumentation drawings and diagrams and a unit on troubleshooting instrumentation. **Prerequisite(s):** PTEC 2000

Semester Availability: Fall

Not part of a Tennessee Transfer Pathway

**PTEC 2060 - Instrumentation II**

4 Credits
3 Class Hours, 2 Lab Hours

Topics include switches, relays, annunciators systems, signal conversion and transmission, controllers, control schemes, advanced control schemes, digital control, programmable logic control, distributed control systems, instrumentation power supplies, emergency shutdown systems, and instrumentation malfunctions. **Prerequisite(s):** PTEC 2050

Semester Availability: Spring

Not part of a Tennessee Transfer Pathway

**READ 0810 - Learning Support Reading I**

3 Credits
3 Class Hours

This course is designed to help students develop the necessary literal and critical comprehension skills for reading college entry-level material. Includes readings from a variety of courses and computer-based exercises to practice skills. **Prerequisite(s):** Level 1 placement in Reading. **Note:** Enrollment available only to students enrolled in a technical certificate program that requires learning support competency in
reading but does not require a college-level general education course.

Semester Availability: As needed

Not part of a Tennessee Transfer Pathway

**READ 0815 – Reading Support**

3 Credits
3 Class Hours

This course accompanies a college-level class and helps students to learn and practice reading strategies for this and other college-level classes. Successful completion of this course prepares students for the reading they will do in subsequent college courses. This course cannot be taken by itself and must be completed with an on-ground section of a college-level course that lists READ 0815 as a co-requisite. **Prerequisite(s):** Level 1 placement in Reading. **Co-requisite:** Concurrent enrollment in a general education course that specifies READ 0815 as a co-requisite

Semester Availability: All

Not part of a Tennessee Transfer Pathway

**SOCI 1010 - Introduction to Sociology***

(Formerly SOCI 1111)
(Honors Option Offered)

3 Credits
3 Class Hours

An introduction to the study of society, social groups, and social interaction. Topics include culture and society, socialization, social stratification, minorities, education, religion, and social change. **Prerequisite(s):** English: Level 2 placement or concurrent enrollment in ENGL 1010 and ENGL 0815, Reading: Level 2 placement or concurrent enrollment in READ 0815. **Note:** SOCI 1010 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**SOCI 1020 - Social Problems***

(Formerly SOCI 1112)

3 Credits
3 Class Hours
A study of issues and topics identified as social problems in American society, such as crime, drug and alcohol abuse, environment, changing family and gender relationships, poverty, and violence. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement. SOCI 1010 is suggested as a prerequisite. **Note:** SOCI 1020 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**SOCI 1120 - Intro to Cultural Anthropology**

3 Credits
3 Class Hours

An introduction to the study of human culture. Focuses on human adaptation and diversity, development and variety of economic, political, religious, family, and expressive institutions. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement. SOCI 1010 is recommended as a prerequisite.

Semester Availability: Upon Request

**SOCI 2010 - Marriage and Family***

(Formerly SOCI 2112)
3 Credits
3 Class Hours

A study of the social, cultural, and personal factors relating to mate selection and family life. Assists students in understanding the values, marriages, and families of contemporary America. Topics include human intimacy, family relations through the life cycle, kinship, child rearing, sources of strain and violence, and sources of bonding in family life. **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement. **Note:** SOCI 2010 meets the requirement for a Social Sciences elective.

Semester Availability: All

* This course is part of the general education core.

**SOCI 2113 - Social Psychology**

3 Credits
3 Class Hours

A study of the individual in society. Topics include social behavior, socialization, perception,
interaction, ethnicity and prejudice, attitude formation, altruism, aggression, effects of media and mass communication, and the methodologies of social psychology. (This course is the same as PSYC 2120.) **Prerequisite(s):** English: Level 2 placement, Reading: Level 2 placement.

**SPAN 1010 - Beginning Spanish I**

3 Credits
3 Class Hours

An introduction to the Spanish language. Provides a foundation in reading, writing, speaking, and aural comprehension. **Prerequisite(s):** Level 2 placement in English; Level 1 placement in Reading.

Semester Availability: All

**SPAN 1020 - Beginning Spanish II**

3 Credits
3 Class Hours

A continuation of SPAN 1010. Students improve skills in reading, writing, speaking, and aural comprehension. **Prerequisite(s):** SPAN 1010 or instructor permission.

Semester Availability: All

**SPAN 2010 - Intermediate Spanish I**

3 Credits
3 Class Hours

A continuation of the development of the student's knowledge of Spanish. Students build aural comprehension skills and speaking ability, write compositions, and study Spanish literature and Hispanic culture. **Prerequisite(s):** SPAN 1020 or instructor permission.

Semester Availability: Fall

**SPAN 2020 - Intermediate Spanish II**

3 Credits
3 Class Hours

A continuation of the development of the student's knowledge of Spanish. Students increase aural
comprehension skills and speaking ability, further develop their writing skills, and broaden their study of Hispanic literature. **Prerequisite(s):** SPAN 2010 or instructor permission.

Semester Availability: Spring

**SPAN 2025 - Conversational Spanish**

3 Credits  
3 Class Hours

A study of grammar and vocabulary acquired in previous Spanish courses by focusing on listening and speaking skills. Topics include a variety of cultural, social and academic subjects. Incorporates a range of practical activities to help students gain proficiency in expressing and defending their opinions/positions. **Prerequisite(s):** SPAN 2020 or instructor permission

Semester Availability: As needed

**SPCH 1010 - Fundamentals of Speech Comm**

(Honors Option Offered)

3 Credits  
3 Class Hours

An exploration and practical application of communication theory in various contexts: interpersonal, small group, and public speaking. **Prerequisite(s):** ENGL 1010 and Level 2 placement in Reading or concurrent enrollment in READ 0815

Semester Availability: All

* This course is part of the general education core.

**SPCH 1112 - Speech**

(Honors Option Offered)

3 Credits  
3 Class Hours

An introduction to the fundamentals of public speaking. Emphasis is on preparing and delivering informative and persuasive speeches. **Prerequisite(s):** ENGL 1010 and Level 2 placement in Reading or concurrent enrollment in READ 0815
Semester Availability: All

* This course is part of the general education core

**SPCH 2111 - Interpersonal Skills**

(Honors Option Offered)

3 Credits  
3 Class Hours

A study of interpersonal communication behaviors. Topics include interpersonal communication principles and theories, self in interpersonal communication, culture, and conflict resolution. **Prerequisite(s):** ENGL 1010 and Level 2 placement in Reading

Semester Availability: Fall

**SPCH 2112 - Advanced Public Speaking**

3 Credits  
3 Class Hours

An advanced study of the principles and processes of effective communication in public contexts and public communication. Course builds on fundamental public speaking skills as applied to various settings, audiences, purposes, and contexts. **Prerequisite(s):** SPCH 1010 or SPCH 1112 or instructor permission

Semester Availability: Fall

**SPCH 2222 - Business and Professional Comm**

(Honors Option Offered)

3 Credits  
3 Class Hours

A study of the principles and skills necessary for appropriate and effective communication in today’s organizations. Topics include introduction to communication processes in organizations, leadership, interpersonal principles, listening, nonverbal and verbal communication, conflict, culture, managing group communication, and interviewing. **Prerequisite(s):** SPCH 1010 or SPCH 1112 or instructor permission

Semester Availability: Spring
SWRK 1020 - Human Behavior Social Environ

3 Credits
3 Class Hours

A study of human motivation and the impact of the social environment on human behavior. Topics include development of socialization skills and coping mechanisms necessary for effectively functioning in social contexts.

Semester Availability: All

SWRK 2010 - Introduction to Social Work

(Formerly SOCS 1010 Intro to Social Work)

3 Credits
3 Class Hours

An introduction and orientation to the field of social work. Topics include professional values and ethics, diverse population groups served, and the historical development and present structure of social services.

Semester Availability: All

SWRK 2020 - Cultural Diversity

3 Credits
3 Credit Hours

A study in social work practice with diverse populations: variables include race, ethnicity, gender, class, and sexual orientation as they relate to generalist social work practice. Students develop self-awareness of their own cultures and the culture of others, and acquire knowledge and understanding of the impact of oppression on diverse groups.

Semester Availability: Pending

SWRK 2025 - Survey of Counseling Theories

3 Credits
3 Class Hours

A comparative analysis of the major theoretical approaches to the practice of counseling and psychotherapy. Topics include psychodynamic, behavioral, cognitive behavioral, gestalt, transactional analysis, and rational emotive and family systems therapy.
Semester Availability: Upon Request

**SWRK 2030 - Intro to Social Welfare Policy**

3 Credits  
3 Class Hours  

Focuses on the identification of and relationship between social problems and social welfare policy. Emphasis is on social policy analysis using principles of social and economic justice as well as on intervention strategies at the local, state, national, and global levels.  

Semester Availability: Upon Request

**SWRK 2035 - Alcohol & Drug Abuse**

3 Credits  
3 Class Hours  

A study of the social issues involved in alcohol and drug abuse and the assessment of sociological theories of alcohol and drug abuse, its prevention, and remediation.  

Semester Availability: Upon Request

**SWRK 2040 - Interviewing Skills**

(Formerly SOCS 2055 Soc Work Interviewing Skills)  
3 Credits  
3 Class Hours  

An introduction to interviewing skills and techniques in social work. Focuses on accommodating the cultural and psychological needs of a diverse client population. **Prerequisite(s):** SWRK 2010

Semester Availability: Alternate Fall and Spring

**SWRK 2045 - Family Systems**

3 Credits  
3 Class Hours  

An examination of the interpersonal interaction patterns existing in families and of the problems experienced by families in contemporary American society. Topics include the examination of emotional and physical abuse, drug and alcohol addiction, alternative life styles, and changing gender roles.
SWRK 2050 - Theories/Methods Soc Svs Prac

3 Credits
3 Class Hours

A study of the theories, methods, and skills of professional practice, including adversarial, conciliatory, developmental, and restorative processes. Emphasis is on the team approach and techniques of casework with individuals and groups. Prerequisite(s): SWRK 2010

Semester Availability: Upon Request

SWRK 2060 - Field Practicum

5 Credits
5 Class Hours

An opportunity for the student to have direct professional experience in the field of social services. Students complete a minimum of 150 clock hours of fieldwork in a social service agency approved by the Department and will be supervised by both an on-site mentor and a college practicum supervisor. Students are also required to attend all scheduled seminar meetings. Prerequisite(s): Completion of 30 hours of major core courses or instructor permission.

Semester Availability: Upon Request

SWRK 2070 - Soc Svcs for Children & Youth

3 Credits
3 Class Hours

A study of the special needs of children and youth. Topics include the social services that are available to meet those needs.

Semester Availability: Upon Request

THEA 1030 – Theatre Appreciation *

3 Credits
3 Class Hours
An introduction to the basic social, artistic, and technical elements of theatre. Topics include theatre as storytelling; dramatic genres, styles, and structures; and the contributions of the playwright, designers, director, actors, and audience to the theatrical process. **Prerequisite(s):** Level 1 placement in English; Level 2 placement in Reading or concurrent enrollment with READ 0815. **Note:** THEA 1030 is a Humanities elective.

Semester Availability: All

* This course is part of the general education core.

**THEA 1035 - Acting I**

3 Credits
3 Class Hours

An introduction to basic acting techniques for body, voice, and mind. Play-reading and text analysis skills will be developed. Through reading, discussion, scene study, and rehearsal, students will practice skills needed to create believable and entertaining performances. **Prerequisite(s):** Level 2 placement in English and Reading

Semester Availability: Fall, Spring

**THEA 1045 - Acting II**

3 Credits
3 Class Hours

Students continue to practice and refine the basic skills of acting learned in Acting I, with greater emphasis on the rehearsal process and characterization. **Prerequisite(s):** THEA 1035

Semester Availability: Fall, Spring

Not part of a Tennessee Transfer Pathway

**THEA 1050 - Stagecraft**

3 Credits
3 Class Hours

An introduction to the theory and practice of working with scenery, lighting, sound, and publicity for the theatre.
THEA 1055 - Theatre Production Lab

1 Credit
1 Class Hour

Laboratory in theatrical production. Involves participation in one or more specialized areas of mounting a play for performance. Areas of concentration include acting, costumes and makeup, scenery, lighting, and sound. **Prerequisite(s):** THEA 1030

Semester Availability: Spring

THEA 2010 - Beginning Script Analysis

3 Credits
3 Class Hours

An introduction to script analysis techniques for theatre practitioners. Intended as preparatory for studies in directing and design. Valuable as a supplement to the study of acting. This course is part of the Tennessee Transfer Pathway in Theatre Arts. **Prerequisite(s):** THEA 1030

Semester Availability: Spring