Jefferson College

Bachelor of Science (Engineering Technology)

Students are encouraged to complete the Associate of Arts degree or the 42-hour general education block at Jefferson College (JC), as either waives the lower-level University Studies (general education) requirements at Southeast. Consult with an advisor at JC regarding requirements for the 42-hour block or the AA degree.

The following lower-level (100-200) core/support courses are required for the Engineering Technology major and can be taken at JC.

<table>
<thead>
<tr>
<th>JEFFERSON COLLEGE</th>
<th>SOUTHEAST MISSOURI STATE UNIVERSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM101 Introductory Chemistry</td>
<td>CH181 Basic Principles of Chemistry</td>
</tr>
<tr>
<td>ENG101 English Composition I</td>
<td>EN100 English Composition</td>
</tr>
<tr>
<td>ETI263 PLCs for Automation</td>
<td>ET304 Fundamentals of PLCs</td>
</tr>
<tr>
<td>MTH133 Trigonometry</td>
<td>MA133 Plane Trigonometry</td>
</tr>
<tr>
<td>MTH134 College Algebra</td>
<td>MA134 College Algebra</td>
</tr>
<tr>
<td>MTH141 Pre-Calculus (equivalent to MTH133</td>
<td>MA135 Precalculus (equivalent to MA133 &amp; MA134)</td>
</tr>
<tr>
<td>&amp; MTH134)</td>
<td>MA140 Analytic Geometry &amp; Calculus I</td>
</tr>
<tr>
<td>MTH180 Calculus I</td>
<td>MN383 Fluid Power</td>
</tr>
<tr>
<td>MTT147 Hydraulics &amp; Pneumatics I</td>
<td>PH120 Introductory Physics I</td>
</tr>
<tr>
<td>PHY108 or Technical Physics or</td>
<td>PH121 Introductory Physics II</td>
</tr>
<tr>
<td>PHY111 Elementary College Physics I</td>
<td></td>
</tr>
<tr>
<td>PHY112 Elementary College Physics II</td>
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</tbody>
</table>

Required courses in the major that also meet University Studies categories include MA134 (Logical Systems), MN220 (Economic Systems), PH120 (Physical Systems), and SW207 (Social Systems).

Electrical & Control option

<table>
<thead>
<tr>
<th>JEFFERSON COLLEGE</th>
<th>SOUTHEAST MISSOURI STATE UNIVERSITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETC132 Semiconductors I</td>
<td>ET260 Electronic Circuit Design and Analysis I</td>
</tr>
<tr>
<td>ETC255 Introduction to Digital Circuits</td>
<td>ET245 Logic Circuits</td>
</tr>
<tr>
<td>ETI260 Advanced Control &amp; Maintenance</td>
<td>ET374 Industrial Electronics</td>
</tr>
<tr>
<td>CIS243 Advanced Computer Support</td>
<td>TN255 Microcomputer Maintenance &amp; Troubleshooting</td>
</tr>
</tbody>
</table>

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Bachelor of Science (Engineering Technology) continued

**Mechanical & Manufacturing Systems option**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Equivalent Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDD122 or EGR101</td>
<td>AutoCADD II or Computer Aided Engineer Design</td>
<td>MN120 Fundamentals of Engineering Design</td>
</tr>
<tr>
<td>CDD247</td>
<td>SolidWorks II</td>
<td>MN221 Solid Modeling &amp; Rapid Prototyping</td>
</tr>
<tr>
<td>CIM155</td>
<td>CNC Programming II</td>
<td>MN304 Industrial Materials &amp; Processes II</td>
</tr>
<tr>
<td>CIM205</td>
<td>Advanced Machining Procedure</td>
<td>MN203 Industrial Materials &amp; Processes I</td>
</tr>
<tr>
<td>CIM250</td>
<td>Introduction to 3D Contouring</td>
<td>MN354 Computer Aided Manufacturing</td>
</tr>
<tr>
<td>EGR228</td>
<td>Engineering Mechanics-Statics</td>
<td>MN219 Statics &amp; Strengths of Materials</td>
</tr>
<tr>
<td>EGR250</td>
<td>Engineering Mechanics-Dynamics</td>
<td>MN324 Design Modeling &amp; Processes</td>
</tr>
<tr>
<td>EGR261</td>
<td>Circuit Analysis</td>
<td>ET160 Basic Electricity &amp; Electronics</td>
</tr>
</tbody>
</table>

1. EGR228 transfers as EP261. Requires substitution by advising office.
2. EGR250 transfers as EP262. Requires substitution by advising office.

Courses taken at Jefferson College that are equivalent to a 3xx-5xx level course at Southeast will not count toward the 39 hours of required upper level coursework that is required to graduate from Southeast. Students may consider waiting to take ET304, ET374, MN324, MN354, and MN383 from Southeast.

Information on admission to Southeast is available from the Office of Admissions at [www.semo.edu/admissions](http://www.semo.edu/admissions), (573) 651-2590 or admissions@semo.edu.
Jefferson College Courses
Which Meet University Studies Requirements
at Southeast Missouri State University

Students who complete as AA degree or the 42-hour general education block from JC have completed the lower-level University Studies (general education) courses at Southeast. For the student planning to transfer to Southeast without completing the AA degree or 42-hour general education block, the following courses taken at JC meet University Studies requirements at Southeast. Some majors will require specific University Studies courses to meet degree requirements.

ENGLISH COMPOSITION
(Choose ONE Course)
• ENG101 English Composition I
• ENG101H Honors Composition I

ARTISTIC EXPRESSION
(Choose ONE Course)
• ART101 Art Appreciation
• ART112 Introduction to Art
• ART222 Film Appreciation: Intro to Cinema
• MSC101 Fundamentals of Music
• MSC103 Music Theory I
• MSC131 Appreciation of Music
• MSC133 Jazz Appreciation
• MSC137 World Music
• SPD120 Introduction to the Theatre
• SPD120H Honors Intro to Theatre
• SPD130 Beginning Acting

LITERARY EXPRESSION
(Choose ONE Course)
• ENG105 Literary Types: Poetry/Short Story
• ENG106 Literary Types: Drama/Short Novel
• ENG143 Literature for Children
• ENG215 World Literature: Before 1650
• ENG215H Honors World Literature
• ENG216 World Literature: After 1650
• ENG216H Honors World Literature: After 1650
• ENG225 English Literature Before 1800
• ENG226 English Literature: After 1800
• ENG228 American Literature Before 1865
• ENG229 American Literature: After 1865
• ENG235 The Shakespeare Plays
• ENG235H Honors Shakespeare
• ENG250 Mythology
• ENG250H Honors Mythology
• ENG255H Honors Literary Types: Poetry
• FRN253 French Reading
• PHL102 Introduction to Philosophy
• PHL102H Honors Introduction to Philosophy
• SPN253 Spanish Reading

ORAL EXPRESSION (Choose ONE Course)
• FRN101 Beginning French
• FRN102 Intermediate French
• FRN201 French Grammar and Composition
• GRM101 Beginning German
• GRM102 Intermediate German
• SPN101 Beginning Spanish
• SPN102 Intermediate Spanish
• SPN201 Spanish Grammar and Composition
• SPD105 Fundamentals of Oral Communication
• SPD105H Honors Oral Communication
• SPD175 Public Speaking

WRITTEN EXPRESSION
(Choose ONE Course)
• ENG102 English Composition II
• ENG102H Honors Composition II

BEHAVIORAL SYSTEMS
(Choose ONE Course)
• PHL202 Ethics
• PHL202H Honors Ethics
• PSY101 General Psychology
• PSY101H Honors General Psychology
• PSY201 Child Development
• PSY202 Adolescent Psychology
• PSY205 Human Development

LIVING SYSTEMS
(Choose ONE Course)
• BIO101 General Biology
• BIO101H Honors General Biology
• BIO102 Concepts in Biology
• BIO109 Ecology and Environment Conservation
• BIO205 General Botany
• BIO206 General Zoology

PHYSICAL SYSTEMS
(Choose ONE Course)
• CHM101 Introductory Chemistry
• CHM111 General Chemistry I
• CHM111H Honors General Chemistry I
• PHY101 Survey of Physical Science
• PHY106 Introduction to Astronomy
• PHY108 Technical Physics
• PHY111 Elementary College Physics I
• PHY223 General Physics I

DEVELOPMENT OF A MAJOR
CIVILIZATION
(Choose ONE Course)
• HST103 U.S. History I to Reconstruction
• HST103H Honors U.S. History to Reconstruction
• HST104 U.S. History II from Reconstruction
• HST104H Honors U.S. History from Reconstruction
• HST201 Ancient & Medieval Civilization
• HST202 Renaissance to Modern Europe
• HST210 Asian Civilization

ECONOMIC SYSTEMS
(Choose ONE Course)
• ECO100 Introduction to Economics
• ECO101 Macroeconomics
• ECO102 Microeconomics

POLITICAL SYSTEMS
(Choose ONE Course)
• PSC102 U.S. and Missouri Governments and Constitutions
• PSC102H Honors U.S. and Missouri Governments and Constitutions

SOCIAL SYSTEMS
(Choose ONE Course)
• ENG110 Journalism I
• GEO103 World Regional Geography
• PHL201 World Religions
• SOC101 General Sociology

Additional courses, such as new courses or course numbers no longer in use, may satisfy University Studies requirements. Refer to the online “Transfer Course Conversion” to verify transferability of other courses to Southeast.

Office of the Registrar
(573) 651-2250 • registrar@semo.edu • www.semo.edu/registrar
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