Career-Technical Education, B.S.

Degree Offered

- Bachelor of Science

Nature of the Program

The Department of Career-Technical Education provides opportunities for Industrial, Technical, Occupational Foods and Health Occupations teachers to meet State Department of Education certification requirements and pursue advanced professional development. These opportunities are provided through special summer sessions on campus and classes throughout West Virginia during the fall and spring semesters. Students, who meet the state requirements, take advantage of advanced professional development opportunities, and meet General Education Foundation requirements, will be awarded the Bachelor's Degree in Career-Technical Education. Enrollment is limited to those currently employed as teachers in a career-technical program area.

General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (http://registrar.wvu.edu/gef/)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

General Education Foundations

<table>
<thead>
<tr>
<th>F1 - Composition &amp; Rhetoric</th>
<th>3-6</th>
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</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to Composition and Rhetoric</td>
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<tr>
<td>&amp; ENGL 102</td>
<td>and Composition, Rhetoric, and Research</td>
</tr>
<tr>
<td>or ENGL 103</td>
<td>Accelerated Academic Writing</td>
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<thead>
<tr>
<th>F2A/F2B - Science &amp; Technology</th>
<th>4-6</th>
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<tbody>
<tr>
<td>F3 - Math &amp; Quantitative Reasoning</td>
<td>3-4</td>
</tr>
<tr>
<td>F4 - Society &amp; Connections</td>
<td>3</td>
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<tr>
<td>F5 - Human Inquiry &amp; the Past</td>
<td>3</td>
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<tr>
<td>F6 - The Arts &amp; Creativity</td>
<td>3</td>
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<tr>
<td>F7 - Global Studies &amp; Diversity</td>
<td>3</td>
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<tr>
<td>F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)</td>
<td>9</td>
</tr>
</tbody>
</table>

Total Hours: 31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Curriculum Requirements

GEF Elective Requirements (2, 3, 4, 5, 6, 7, and 8) 28

<table>
<thead>
<tr>
<th>ENGL 101</th>
<th>Introduction to Composition and Rhetoric</th>
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<tr>
<td>&amp; ENGL 102</td>
<td>and Composition, Rhetoric, and Research</td>
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<tr>
<td>PSYC 241</td>
<td>Introduction to Human Development</td>
<td>3</td>
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<tr>
<td>CTED 201</td>
<td>Introduction to Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 301</td>
<td>Occupational Analysis</td>
<td>3</td>
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<tr>
<td>CTED 302</td>
<td>Course Construction and Planning in Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 303</td>
<td>Organization and Management of School Shops and Laboratories</td>
<td>3</td>
</tr>
<tr>
<td>CTED 304</td>
<td>Safety in Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 305</td>
<td>Methods of Examination in Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 306</td>
<td>Coordination of Cooperative Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 308</td>
<td>Application of Basic Skills in Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 402</td>
<td>History and Philosophy of Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 409</td>
<td>Coordination of Career Technical Youth Activities</td>
<td>3</td>
</tr>
<tr>
<td>CTED 421</td>
<td>Teaching Special Students in Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 485</td>
<td>Teaching Methods in Career Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>CTED 493</td>
<td>Special Topics (Advanced Computer Applications)</td>
<td>3</td>
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</tbody>
</table>
Career-Technical Education, B.S.

or CTED 307  Computer Applications in Career Technical Education

Industrial Processes Courses (Occupational Update)*  15
CTED 422  Back to Industry Experience
CTED 423  Industrial Processes
CTED 424  Industrial Processes
CTED 425  Industrial Processes

Occupational Competency Exam  30

Total Hours  121

* Occupational Updating can be satisfied with a combination of CTED 422, 423, 424, and/or 425.

Suggested Plan of Study

First Year

Fall      Hours      Spring      Hours
ENGL 101 (GEF 1)  3         ENGL 102 (GEF 1)  3
CTED 485       3         PSYC 241       3
GEF 5          3         CTED 201       3
GEF 8          3         CTED 307 or 493 (Advanced Computer Applications) 3
GEF 8          3         GEF 4          3
                      GEF 8          3
      15              18

Second Year

Fall      Hours      Spring      Hours
CTED 304       3         CTED 301       3
CTED 308       3         CTED 303       3
GEF 2          4         CTED 409       3
GEF 6          3         GEF 3          3
GEF 7          3
      16              12

Third Year

Fall      Hours      Spring      Hours
CTED 302       3         CTED 305       3
CTED 306       3         CTED 402       3
CTED 423       3         CTED 421       3
CTED 423       3         CTED 423       3
      12              12

Fourth Year

Fall      Hours      Spring      Hours
CTED 423       3         CTED 423       3
Occupational Competency Exam  15         Occupational Competency Exam  15
      18              18

Total credit hours: 121

Major Learning Outcomes

CAREER-TECHNICAL EDUCATION

Teachers completing the Career-Technical Education program will be able to:

• Incorporate learning goals into instructional plans
• Incorporate pending learning outcomes and learning objectives into instructional plans
• Incorporate student characteristics into instructional plans for purposes of instructional design
• Incorporate teacher characteristics into instructional plans
• Apply a personal framework for teaching in development of an instructional plan
• Plan instructional strategies that are consistent with intended learning outcomes and objectives
• Select, develop, and modify instructional materials to meet intended learning outcomes and objectives
• Determine appropriate classroom procedures and organizational strategies to support the instructional environment
• Incorporate information from various sources in planning for instruction
• Select assessment or evaluation strategies to measure learning outcomes, objectives, and instructional effectiveness
• Maintain a positive learning environment to support mastery of learning outcomes and objectives
• Communicate with students to provide a context for learning that is consistent with instructional plans
• Manage the instructional environment to enhance student learning and development consistent with instructional plans
• Implement a variety of instructional strategies and materials consistent with instructional plans
• Utilize questioning strategies consistent with instructional plans
• Provide verbal and/or nonverbal feedback to students
• Evaluate the effectiveness of the instructional process
• Evaluate student progress toward mastery of learning outcomes and objectives
• Organize, interpret, and summarize evaluation data for instructional planning and delivery and management
• Report student evaluation results to students, parents, and appropriate school administrative personnel
• Use available evaluation results
• Establish and implement a continuing education plan to meet personal and professional goals
• Demonstrate management skills to carry out non-teaching responsibilities
• Follow school policies, rules, and regulations
• Demonstrate skills necessary to work with school committees and community groups