

Industrial Education

Learn more about the Bachelor of Science in Education in Career and Technical Education (<https://www.temple.edu/academics/degree-programs/career-and-technical-education-major-ed-cte-bsed>).

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The Bachelor of Science in Education in Career and Technical Education's concentration in Industrial Education (B.S.ED in IE) is designed to prepare students who expect to teach career and technical education subjects in grades 7-12 and at the 2-year college level in public and private schools. Subject area content (occupational competency assessment credit for industry experience) and professional education content are combined with general education content (university curriculum) in order to provide the student with a general education, a field of specialization, and professional training. Moreover, the curriculum aims to combine these elements in such proportions as to give students the balanced perspective of the relation that industrial education bears to education as a whole.

For both the B.S.ED in IE degree as well as vocational certification, there is an occupational experience and an occupational competency testing requirement which must be met. The student must pass an occupational competency assessment (or the equivalent) and **have completed four years of occupational wage-earning experience (or 8,000 hours)** beyond the time needed to learn the occupation.

The B.S.ED in IE program consists of a total of 126-127 credits, of which sixty (60) of those credits may be used to secure a Vocational Instructional I and Vocational Instructional II certification. In addition, the student can also be awarded 24 credits for passing an Occupational Competency Assessment.

1. The total number of credit hours at graduation may be greater for some students based on initial placement exams, transfer evaluations, individual curricular choices, and academic progress.
2. Certain courses fulfill multiple requirements. In consultation with the advisor, students will be able to plan their curriculum more effectively.
3. Students must fulfill the necessary prerequisites for any given course or course sequence. See the Prerequisites and Co-requisites Policy (<http://bulletin.temple.edu/undergraduate/academic-policies/prerequisites-corequisites>) in the university-wide Academic Policies section in this *Bulletin*.

Summary of Requirements

University Curriculum

1. All students are required to complete the university's General Education (GenEd (<http://bulletin.temple.edu/undergraduate/general-education>)) curriculum.
2. All students must take 6 s.h. of college level math and 6 s.h. of English composition and literature and pass the required state tests to be certified.
3. All students must take a minimum of two writing-intensive courses at Temple. The specific writing-intensive courses required for this major are EDUC 2296 and SECE 3796.

Professional Education

| Code | Title | Credit Hours |
|-----------|--|--------------|
| CTE 3101 | Principles of Career and Technical Education | 3 |
| CTE 3102 | Teaching Strategies in Career and Technical Education | 3 |
| CTE 3103 | Curriculum in Career and Technical Education | 3 |
| EDUC 1255 | Inclusive Education for a Diverse Society | 3 |
| EDUC 2103 | Socio-cultural Foundations of Education in the United States | 3 |
| EDUC 2109 | Adolescent Development for Educators | 3 |
| EDUC 2255 | Effective Use of Instructional Technology in Classrooms | 3 |
| EDUC 2296 | Effective Teaching: Theory and Practice (WI) | 3 |
| EDUC 2306 | Assessment and Evaluation | 3 |
| EDUC 4111 | Classroom and Conflict Management in Grades 4 through 12 | 3 |
| EDUC 4788 | Student Teaching in Secondary Education/Career Technical Education | 9 |
| ENES 3338 | Foundations of Language Teaching: Teaching English Language Learners in Grades 4 to 12 | 3 |
| SECE 3796 | Differentiated Literacy Instruction in the Disciplines, 7-12 (WI) | 3 |
| SECE 4801 | Senior Seminar and Performance Assessment in Secondary Education ¹ | 3 |

| | | |
|--------------------|-------------------------------------|----|
| SPED 2231 | Introduction to Inclusive Education | 3 |
| Total Credit Hours | | 51 |

¹ Requirement for pre-service candidates only.

Academic Specialization

| Code | Title | Credit Hours |
|---------------------------|---|--------------|
| CTE 4285 or CTE 3389 | Industry Education Capstone and Field Experience for Work-Based Learning ¹ Supervised Work Experience | 3 |
| CTE 4315 | Credit by Examination | 24 |
| CTE 4324 | Industry-Based Coordination Methods for Work-Based Learning | 3 |
| CTE 4331 or CTE 3389 | Industry-Based Instructional Methods for Work-Based Learning ¹ Supervised Work Experience | 3 |
| ECON 1101 | Macroeconomic Principles | 3 |
| ENGR 3033 | Entrepreneurial Engineering | 3 |
| MATH 1021 or EDUC 1017 | College Algebra Algebra and Algebraic Thinking for Educators | 4 |
| Total Credit Hours | | 43 |

| Code | Title | Credit Hours |
|--|-------|--------------|
| Minimum Hours Required for Graduation | | 126 |

¹ With the permission of the advisor, students may take CTE 3389 for 3 credits instead of CTE 4285. With permission of the advisor, students may also take CTE 3389 for 3 credits instead of CTE 4331.

Note: Matriculated students with work experience who have completed 90 s.h. of acceptable coursework may arrange through a credit by exam process for up to 24 s.h. to be recorded toward their degree. Candidates needing work experience may apply CTE 3389 Supervised Work Experience toward meeting this requirement with an advisor's permission.

Suggested Academic Plan

B.S.ED. in Career & Technical Education: Industrial Education

Requirements for New Students starting in the 2019-2020 Academic Year

| Year 1 | | Credit Hours |
|-------------------------|--|--------------|
| Fall | | |
| ENG 0802, 0812, or 0902 | Analytical Reading and Writing [GW] | 4 |
| | GenEd Breadth Course | 3 |
| | GenEd Breadth Course | 3 |
| EDUC 2296 | Effective Teaching: Theory and Practice [WI] | 3 |
| ECON 1101 | Macroeconomic Principles | 3 |
| Term Credit Hours | | 16 |
| Spring | | |
| IH 0851 or 0951 | Intellectual Heritage I: The Good Life [GY] | 3 |
| | GenEd Quantitative Literacy Course [GQ] | 4 |
| | GenEd Breadth Course | 3 |
| CTE 3101 | Principles of Career and Technical Education | 3 |
| EDUC 1255 | Inclusive Education for a Diverse Society | 3 |
| Term Credit Hours | | 16 |
| Year 2 | | |
| Fall | | |
| IH 0852 or 0952 | Intellectual Heritage II: The Common Good [GZ] | 3 |
| | GenEd Breadth Course | 3 |

| | | |
|------------------------------|---|-----|
| GenEd Breadth Course | | 3-4 |
| CTE 3102 | Teaching Strategies in Career and Technical Education | 3 |
| SPED 2231 | Introduction to Inclusive Education | 3 |
| Term Credit Hours | | 15 |
| Spring | | |
| GenEd Breadth Course | | 3 |
| EDUC 2103 | Socio-cultural Foundations of Education in the United States | 3 |
| CTE 3103 | Curriculum in Career and Technical Education | 3 |
| CTE 4324 | Industry-Based Coordination Methods for Work-Based Learning | 3 |
| Select one of the following: | | 4 |
| MATH 1021 | College Algebra | |
| EDUC 1017 | Algebra and Algebraic Thinking for Educators | |
| Term Credit Hours | | 16 |
| Year 3 | | |
| Fall | | |
| EDUC 2109 | Adolescent Development for Educators | 3 |
| ENES 3338 | Foundations of Language Teaching: Teaching English Language Learners in Grades 4 to 12 (Restrictions: Candidacy Required) | 3 |
| CTE 4315 | Credit by Examination | 8 |
| Term Credit Hours | | 14 |
| Spring | | |
| EDUC 4111 | Classroom and Conflict Management in Grades 4 through 12 | 3 |
| EDUC 2255 | Effective Use of Instructional Technology in Classrooms | 3 |
| CTE 4315 | Credit by Examination | 8 |
| Select one of the following: | | 3 |
| CTE 3389 | Supervised Work Experience ¹ | |
| CTE 4331 | Industry-Based Instructional Methods for Work-Based Learning | |
| Term Credit Hours | | 17 |
| Year 4 | | |
| Fall | | |
| CTE 4315 | Credit by Examination | 8 |
| ENGR 3033 | Entrepreneurial Engineering ² | 3 |
| SECE 3796 | Differentiated Literacy Instruction in the Disciplines, 7-12 [WI] | 3 |
| Select one of the following: | | 3 |
| CTE 3389 | Supervised Work Experience ¹ | |
| CTE 4285 | Industry Education Capstone and Field Experience for Work-Based Learning | |
| Term Credit Hours | | 17 |
| Spring | | |
| SECE 4801 | Senior Seminar and Performance Assessment in Secondary Education ² | 3 |
| EDUC 4788 | Student Teaching in Secondary Education/Career Technical Education | 9 |
| EDUC 2306 | Assessment and Evaluation | 3 |
| Term Credit Hours | | 15 |
| Total Credit Hours: | | 126 |

¹ Students may take CTE 3389 for up to 3 credits, with permission of the advisor.

² Requirement for pre-service candidates only.