## Technology Education

**Department of Educational Studies**

**Department Chair:** Gerri August

**Technology Education Program Coordinator:** Charles McLaughlin

**Technology Education Program Faculty:** **Professor** McLaughlin Jr.

Students **must** consult with their assigned advisor before they will be able to register for courses.

Technology Education B.S.

Course Requirements for Concentration in Teaching

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| TECH 200 | Introduction to Technological Systems and Processes | 3 | F, Sp |
| TECH 202 | Design Processes | 3 | F |
| TECH 204 | Energy and Control Systems | 3 | Annually |
| TECH 216 | Computer-Aided Design | 3 | As needed |
| TECH 300 | Orientation to Technology Education | 4 | F, Sp |
| TECH 306 | Automation and Control Processes | 3 | F |
| TECH 326 | Communication Systems | 3 | F |
| TECH 327 | Construction Systems | 3 | Sp |
| TECH 328 | Manufacturing Systems | 3 | Sp |
| TECH 329 | Transportation Systems | 3 | Annually |

Professional Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CEP 315 | Educational Psychology | 3 | F, Sp, Su |
| FNED 346 | Schooling in a Democratic Society | 4 | F, Sp, Su |
| SPED 433 | Adaptation of Instruction for Inclusive Education | 3 | F, Sp, Su |
| TECH 406 | Methods in Technology Education | 4 | F, Sp |
| TECH 407 | Practicum in Elementary Technology Education (Grades K through Six) | 4 | Sp |
| TECH 408 | Practicum in Technology Education (Grades Seven through Twelve) | 4 | F |
| TECH 421 | Student Teaching in Technology Education | 10 | F, Sp |
| TECH 422 | Student Teaching Seminar in Technology Education | 2 | F, Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| MATH 120 | Intermediate Algebra | 4 | F, Sp, Su |
| MATH 139 | Contemporary Topics in Mathematics | 4 | F, Sp, Su |
| PSCI 103 | Physical Science | 4 | F, Sp, Su |

Total Credit Hours: 81

Course Requirements for Concentration in Applied Technology

Note: This program does not lead to RIDE teaching certification.

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| TECH 200 | Introduction to Technological Systems and Processes | 3 | F, Sp |
| TECH 202 | Design Processes | 3 | F |
| TECH 204 | Energy and Control Systems | 3 | Annually |
| TECH 216 | Computer-Aided Design | 3 | As needed |
| TECH 306 | Automation and Control Processes | 3 | F |
| TECH 326 | Communication Systems | 3 | F |
| TECH 327 | Construction Systems | 3 | Sp |
| TECH 328 | Manufacturing Systems | 3 | Sp |
| TECH 329 | Transportation Systems | 3 | Annually |
| TECH 430 | Internship in Applied Technology | 6 | As needed |
| TECH 431 | Capstone Design Project | 4 | F, Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 157 | Introduction to Algorithmic Thinking in Python | 4 | F, Sp |
| CSCI 201 | Computer Programming and Design | 4 | F, Sp |
| MGT 201 | Foundations of Management | 3 | F, Sp, Su |
| MGT 331 | Occupational and Environmental Safety Management | 3 | F |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| PHYS 101 | General Physics I | 4 | F, Su |
| PHYS 102 | General Physics II | 4 | Sp, Su |

Total Credit Hours: 67

MKT 338 - Advertising (3)

he key processes of modern advertising practice are introduced. Topics include production of effective advertising and media. Students cannot receive credit for both COMM 334 and MKT 338.

Prerequisite: MKT 201 or MKT 301.

Offered: As needed.

MKT 340 - Personal Selling and Sales Management (3)

Focus is on personal selling, a subset of the promotional element of marketing strategy, which involves face-to-face relationships, personal influence, and complex communication processes.

Prerequisite: MKT 201 or MKT 301.

Offered: As needed.

MKT 347 - Supply Chain Management (3)

Emphasis is on design and management of activities along the supply chain, from purchasing and materials management to distribution and transportation systems. Students cannot receive credit for both MGT 347 and MKT 347.

Prerequisite: MGT 201 or MGT 301 and MKT 201 or MKT 301.

Offered: As needed.

MKT 462 - Strategic Marketing Management (3)

This capstone course integrates the marketing functions of product, price, channels, and promotion with the concepts of strategic planning. Emphasis is on the relevance of this integration to marketing.

Prerequisite: MKT 201 or MKT 301, and TWO from MKT 215 or MKT 315, MKT 333, or MKT 334.

Offered: Spring, Fall.

MKT 467 - Directed Internship (3)

Students are assigned to a business or nonprofit organization and earn three credits for topical course work, a two-hour biweekly seminar, and 120 hours of organization work, supervised by a mentor.

Prerequisite: MKT 201 or MKT 301, completion of at least 60 college credits, a major or minor in a School of Business program, and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

MKT 490 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MKT 491 - Independent Study I (3)

The student will select a research topic and under the mentorship of a faculty advisor, will conduct comprehensive research on the selected and approved topic.

Prerequisite: Admission into marketing honors program and consent of instructor, department chair and dean.

Offered: As needed.

MKT 492 - Independent Study II (3)

This course continues the development of research begun in MKT 491. The honors research is completed under the consultation of a faculty advisor. A research paper and presentation are required.

Prerequisite: MKT 491 and consent of instructor, department chair and dean.

Offered: As needed.

## MATH - Mathematics

MATH 010 - Basic Mathematics Competency (4)

Satisfactory completion of this course fulfills the College Mathematics Competency. Topics include problem solving, beginning algebra, geometry, measurement, introductory probability and statistics, and graphs and charts. Graded S, U.

Offered: Fall, Spring, Summer.

MATH 117 - Calculus: A Short Course (3)

Topics include differentiation and integration, including an introduction to partial differentiation.

Offered: As needed.

MATH 120 - Intermediate Algebra ( 4)

Intended for students needing intermediate algebra skills, especially for

MATH 177 and 209. Topics include linear and quadratic equations; inequalities; exponents; radicals; algebraic fractions; and quadratic, logarithmic, and exponential functions.

Prerequisite: MATH 010 or appropriate score on the placement exam.

Offered: Fall, Spring, Summer.

MATH 139 - Contemporary Topics in Mathematics (4)

Areas of modern mathematics that have application in contemporary society are introduced. Topics include the mathematics of social science, graph theory, consumer mathematics, and statistics.

General Education Category: Mathematics.

Prerequisite: Completed college mathematics competency.

Offered: Fall, Spring, Summer.

MATH 143 - Mathematics for Elementary School Teachers I (4)

Emphasis is on problem solving, model building, and algorithm development appropriate for the mathematics curriculum in the elementary/middle school. Topics include numeration and the development of number systems. Lecture and laboratory.

Prerequisite: Three units of college preparatory mathematics and completed college mathematics competency.

Offered: Fall, Spring, Summer.

MATH 144 - Mathematics for Elementary School Teachers II (4)

A continuation of MATH 143, this course includes geometry and measurement, counting problems, probability, and statistics. Lecture and laboratory.

General Education Category: Mathematics for elementary education students only.

Prerequisite: MATH 143, with a minimum grade of C, or consent of department chair.

Offered: Fall, Spring, Summer.