

Updated 4/15/22

Memorandum

To: School of Education Faculty Council  
Interim Dean, Dr. Laura Spenceley

From: Richard Bush, Chair  
Department of Technology

Date: February, 24 2021

Subject: Proposed Changes to the Technology Education BS Degree

The Department of Technology is submitting updates to the Technology Education BS degree. Most of these changes are not new and the Department has been writing deviations for years. It is time to fix that, so here are the Department's proposed changes. These changes were approved by our faculty on 12/5/21.

A. Core Requirements

TEL 250 Transportation and Power is no longer offered, so the Department would like to replace it with TEL 120 – Introduction to Materials Technology.

C. Elective Requirements

The Department would like to add two additional courses to the list of electives: TEL 396 Laboratory Management Practicum and TEL 397 Laboratory Instruction Practicum.

E. Other Arts and Sciences Requirements (6-12 cr)

TEL 246 Microcomputer Applications is no longer offered, so the Department would like to replace it with TEL 130 Computer Technology and Information Systems. This class covers the GE Computer and Information Literacy requirement for the degree.

F. Non-credit Requirements (0 cr)

First Aid Certification has been a requirement for decades for our majors. It is listed on our Degreeworks sheet. But, for some reason it is not listed in the current catalog. Would like to make sure that it is included and not lost in this revision.

Current Program – as listed in the catalog

**Technology Education All Grades Major – B.S. Degree**

**This old catalog copy is wrong – 85 is really 86**

**Technology Education All Grades Major (85-95 cr)**

**A. Core Requirements-Technical (39 cr)**

TEL 101 - Engineering Graphics and Technical Illustration Credit: 3

TEL 110 - Design and Technology Credit: 3

TEL 203 - Materials Processing and Fabrication Credit: 3

TEL 204 - Materials Molding and Forming Credit: 3

TEL 205 - Materials Precision Production Credit: 3

TEL 240 - Electronics Technology Credit: 3

TEL 250 - Transportation and Power Technology Credit: 3

TEL 347 - Computer Assisted Design and Drafting Credit: 3

TEL 323 - Construction Systems Credit: 3

TEL 353 - Transportation Systems Credit: 3

TEL 355 - Energy and Power Technology Credit: 3

TEL 363 - Communication and Multimedia Systems Credit: 3

TEL 393 - Manufacturing Systems Credit: 3

**B. Core Requirements-Professional Education (26 cr)**

TED 201 - Introduction to Teaching Technology Education Credit: 3

TED 206 - Introduction to Technology Education Curriculum Credit: 3

TED 211 - Field Experience I - Observation and Participation in a Technology Education Environment Credit: 1

TED 216 - Field Experience II - Assisting in a Technology Education Environment Credit: 1

TED 306 - Teaching Methods for Technology Education Credit: 3

TED 316 - Field Experience III-Methods of Teaching Technology Education Practicum Credit: 1

TED 410 - Professional Field Experience Credit: 6

TED 411 - Professional Field Experience Credit: 6

TED 414 - Professional Topics and Problems Credit: 2

Spring 2022 Proposed Changes

**Technology Education All Grades Major – B.S. Degree**

**Technology Education All Grades Major (89-95 cr)**

**A. Core Requirements-Technical (39 cr)**

TEL 101 - Engineering Graphics and Technical Illustration Credit: 3

TEL 110 - Design and Technology Credit: 3

TEL 120 – Introduction to Materials Technologies: 3

TEL 203 - Materials Processing and Fabrication Credit: 3

TEL 204 - Materials Molding and Forming Credit: 3

TEL 205 - Materials Precision Production Credit: 3

TEL 240 - Electronics Technology Credit: 3

TEL 347 - Computer Assisted Design and Drafting Credit: 3

TEL 323 - Construction Systems Credit: 3

TEL 353 - Transportation Systems Credit: 3

TEL 355 - Energy and Power Technology Credit: 3

TEL 363 - Communication and Multimedia Systems Credit: 3

TEL 393 - Manufacturing Systems Credit: 3

**B. Core Requirements-Professional Education (26 cr)**

TED 201 - Introduction to Teaching Technology Education Credit: 3

TED 206 - Introduction to Technology Education Curriculum Credit: 3

TED 211 - Field Experience I - Observation and Participation in a Technology Education Environment Credit: 1

TED 216 - Field Experience II - Assisting in a Technology Education Environment Credit: 1

TED 306 - Teaching Methods for Technology Education Credit: 3

TED 316 - Field Experience III-Methods of Teaching Technology Education Practicum Credit: 1

TED 410 - Professional Field Experience Credit: 6

TED 411 - Professional Field Experience Credit: 6

TED 414 - Professional Topics and Problems Credit: 2

**C. Elective Requirements (3 cr)**

Select one course from the following:

- TED 310 - Technology and Civilization Credit: 3
- TED 400 - Workshop in Technology Education Credit: 1 to 3
- TEL 401 - Architectural Drawing Credit: 3
- TEL 412 - Design Probe I Credit: 3
- TEL 433 - Metals Manufacturing Technology Credit: 3
- TED 399 - Independent Study Credit: 1 to 4 or
- TED 499 - Independent Study Credit: 1 to 4

**D. Cognate Requirements (15 cr)**

- CHE 101 - Survey of Chemistry Credit: 3
  - or other approved Gen Ed Chemistry course
- COM 210 - Critical Thinking and Public Speaking Credit: 3
- PHY 101 - Introductory Physics Credit: 3
  - or other approved Gen Ed Physics course
- TED 209 - Technical Writing and Literacy Credit: 3
- HDV 322 - Child Development Credit: 3
  - or
- HDV 323 - Adolescent Development Credit: 3

**E. Other Arts and Sciences Requirements (3-12 cr)**

- PSY 100 - Introduction to Psychology Credit: 3
- TEL 246 - Microcomputer Applications credit: 3
- or other approved Gen Ed course
- or competency exam
- Foreign Language credit: 0-6

**F. Non-credit Requirements (0 cr)**

- SSHS 1020 - Safe Schools, Healthy Students Credit: 0
- DASA 1020 - DASA Training Credit: 0

**C. Elective Requirements (3 cr)**

Select three credits from the following:

- TED 310 - Technology and Civilization Credit: 3
- TEL 396 Laboratory Management Practicum: 3
- TEL 397 Laboratory Instruction Practicum: 3
- TED 400 - Workshop in Technology Education Credit: 1 to 3
- TEL 401 - Architectural Drawing Credit: 3
- TEL 412 - Design Probe I Credit: 3
- TEL 433 - Metals Manufacturing Technology Credit: 3
- TED 399 - Independent Study Credit: 1 to 4 or
- TED 499 - Independent Study Credit: 1 to 4

**D. Cognate Requirements (15 cr)**

- COM 210 - Critical Thinking and Public Speaking Credit: 3
- TED 209 - Technical Writing and Literacy Credit: 3
- General Education Chemistry, under advisement: 3
- General Education Physics, under advisement: 3

Select one of the following:

- HDV 322 - Child Development Credit: 3
- HDV 323 - Adolescent Development Credit: 3

**E. Other Arts and Sciences Requirements (6-12 cr)**

- PSY 100 - Introduction to Psychology Credit: 3
- TEL 130 - Computer Technology and Information Systems Credit: 3
- Foreign Language credit: 0-6

**F. Non-credit Requirements (0 cr)**

- SSHS 1020 - Safe Schools, Healthy Students Credit: 0
- DASA 1020 - DASA Training Credit: 0
- First Aid Certification Credit: 0