2022-2023 B.S. in TECHNOLOGY AND APPLIED DESIGN – Engineering Technology Education

(32 credits required for graduation with a minimum cumulative GPA of 2.00)

NOTE: This guide is not meant to replace the degree audit; it is subject to change and represents actions approved by Faculty to date. Students are encouraged to run their degree audit often. Please refer to the 2022-2023 Catalog, which will be updated with the most current information.

GENERAL EDUCATION PROGRAM

No single transfer course can meet more than one General Education requirement.

Core Courses

(Development math courses may be waived on basis of test scores.) MAT 010 Pre-Algebra MAT 011 Elementary Algebra MAT 012 Elementary Algebra II

GSTR 110 Writing Seminar I: Critical Thinking in the Liberal Arts (*Transfer students may waive if College Composition was taken as a degree-seeking student at another college and earned a grade of B or higher.*) GSTR 210 Writing Seminar II: Identity and Diversity in the U.S. GSTR 310 Understandings of Christianity GSTR 410 Seminar-Contemporary Global Issues

Scientific Knowledge and Inquiry

GSTR 332 Scientific Origins OR

Two (2) approved science courses, from two different disciplines, one of which must be an approved lab course. The following courses have been approved to meet this requirement: ANR 110, BIO 100, 101, 110, CHM 113, 131, PHY 111, 127, 221

Wellness & Fitness

WELL 101 Principles of Wellness I WELL 102 Principles of Wellness II Two (2) ¼-credit HHP activity courses (HHP 200 will satisfy both the SWIM requirement and one of the activity course requirements)

Practical Reasoning (PR & PRQ)

Two (2) courses, at least one firmly grounded in math or statistics (PRQ); the other can be an approved practical reasoning (PR) course or another PRQ course.

Perspectives (Six areas required)

One (1) course in **<u>each</u>** of the six areas is required. Individual courses may be approved to satisfy more than one perspective, but no single course may satisfy more than two perspective areas.

- 1) Arts
- 2) Social Science
- 3) Western History
- 4) Religion
- 5) African American/Appalachian/Women
- 6) International (choose one option):
- A) Two (2) courses in the same non-English language, one of which may be waived through testing; **OR**

B) Two (2) world culture courses, one of which must be grounded in a non-western culture

the Discipline and throughout the Liberal Arts

Active Learning Experience

An approved experience, taken for credit or non-credit (e.g. internships, undergraduate research experiences). Learning Goal 1: Develop understanding and skills within

TAD-ENGINEERING TECHNOLOGY EDUCATION MAJOR REQUIREMENTS

A minimum GPA of 2.0 in the major is required for graduation.

Core Courses

ETAD 130 Design & Documentation ETAD 140 Design Production in Woods ETAD 180 Graphic Communication & Design ETAD 245 Materials/Processing/Testing ETAD 265 Electricity & Electronics ETAD 275 Power & Energy Technology

Capstone Course

ETAD 488 Research in Technology

Required Distribution Courses (three total credits)

Three (3) advanced courses, chosen from 300 or 400-level ETAD courses.

<u>Required Collateral Courses</u> (three total credits; count outside the major)

MAT 115 College Algebra w/Modeling **OR** Higher Level Math course **OR** waiver

Teacher Certification Courses (Count outside the major)

EDS 150 Introduction to Education EDS 228 Adolescent Dev & School Structure EDS 325 Methods I: High School EDS 339 Methods II: Teaching in Humanities EDS 346 Literacy in the Content Area EDS 349 Education and Culture EDS 479 Methods III: Learning & Assessment

<u>Professional Year Sequence</u> (Count outside the major) (Students must meet all criteria stated in the College Catalog to be admitted to the Professional Terms.)

EDS 480 Students with Special Needs - Secondary EDS 481 Student Teaching Seminar EDS 482 Student Teaching (3 credits) EDS 484 Capstone Teaching Practicum (½ credit)

ELECTIVES

Twenty (20) credits outside the major

Learning Outcome 1.1: Demonstrate critical thought, problem solving, analysis and synthesis

Learning Outcome 1.2: Demonstrate a desire for life-long learning and inquiry

<u>Learning Outcome 1.3:</u> Connect learning in technology and applied design across all disciplines

<u>Learning Outcome 1.4:</u> Demonstrate learning by addressing real world problems and challenges.

Learning Goal 2: Develop a contemporary, global understanding of Technology and Applied Design.

<u>Learning Outcome 2.1:</u> Demonstrate knowledge and understanding of the world of work.

<u>Learning Outcome 2.2:</u> Demonstrate appropriate skills and knowledge toward specific application(s) of technology and applied design.

Learning Outcome 2.3: Demonstrate an understanding of the impact of technology and applied design has on humans and our natural world.

Learning Goal 3: Preparation for Responsible Engagement

<u>Learning Outcome 3.1:</u> Demonstrate an awareness for individual action, ethical consciousness and a commitment to service.

<u>Learning Outcome 3.2</u>: Exhibit preparedness to live thoughtfully in our natural and human made environments. <u>Learning Outcome 3.3</u>: Demonstrate understanding of the importance of human collaboration and cooperation.