B.S. in TECHNOLOGY AND APPLIED DESIGN:
With an Engineering and Technology Education Concentration
(32 credits required for graduation)

NOTE: This guide is subject to change and represents actions approved by Faculty to date. Please refer often to the *2018-2019 Online Catalog & Student Handbook (www.berea.edu/cataloghandbook),* which will be updated with the most current information.

GENERAL EDUCATION PROGRAM

NOTE: No single college course transferred into Berea can meet more than one General Education requirement.

Core Courses | Term | Credit
Course	Term	Credit
MAT 010: Prealgebra[a]	_____	NC
MAT 011: Elementary Algebra I[a]	_____	NC
MAT 012: Elementary Algebra II[a]	_____	NC
GSTR 110: Writing Sem. I: Critical Thinking in the Liberal Arts[b]	_____	___
GSTR 210: Writing Sem. II: Identity and Diversity in the United States	_____	1
GSTR 310: Understandings of Christianity	_____	1
GSTR 410: Sr. Sem. in Cont. Global Issues	_____	1

Scientific Knowledge and Inquiry
GSTR 332: Scientific Knowledge & Inquiry _____ ___
OR
Two approved science courses, **from two different areas (BIO, ANR, CHM, PHY)**, one of which must be an approved lab course. At this time, only the following courses have been approved to meet this alternative (all of which meet the lab course stipulation): ANR 110, 130, BIO 100, 101, 110, CHM 113, 131, 134, PHY 111, 127, or 221

_____ ____: _____ _____ ___
_____ ____: _____ _____ ___

Wellness & Fitness
HLT 100: Introduction to Lifetime Wellness _____ .50
OR
WELL 101: Principles of Wellness I _____ .50
AND Two activity courses:
HHP 2___: _____ _____ .25
HHP 2___: _____ _____ .25
(if swimming proficiency test not passed, take HHP 200)

Practical Reasoning Across the Curriculum (PR & PRQ)
Two 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.

_____ ____: _____ _____ 1
_____ ____: _____ _____ 1

Perspectives—Six Areas Required
Students will satisfy each of the six areas by taking or waiving a course, or through an approved experience. 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. Afr. Amer., Appal., Women's _____ _____ _____
6. International (two courses either in area 6A or area 6B):
   A) Same Non-English Language _____ _____ _____
      Same Non-English Language _____ _____ _____
      (one course may be waived by placement exam)
   OR
   B) World Culture (Non-western) _____ _____ _____
      World Culture (Western/non-western)_____ _____ _____

Active Learning Experience (ALE)
An approved experience, taken for credit or as noncredit.
_____ ____: _____ _____ _____

MAJOR COURSES

Core Courses
Course	Term	Credit
TAD 130: Design and Documentation	_____	1
TAD 140: Design & Production Tech in Woods	_____	1
TAD 180: Graphic Communication & Design	_____	1
TAD 245: Materials, Process, & Testing	_____	1
TAD 265: Electricity and Electronics	_____	1
TAD 275: Energy & Power Technology	_____	1

Capstone Course
Course	Term	Credit
TAD 488: Research in Technology	_____	1

Distribution Courses (Required; count inside the major)
Three (3) advanced courses chosen from the following: TAD 330, 340, 345 (also SENS), 352, 382, 455, 460, 470, or other courses approved by the Program

___ ___: _____ _____ 1
___ ___: _____ _____ 1
___ ___: _____ _____ 1

Collateral Courses (Required; count outside the major)
Course	Term	Credit
EDS150: Int-Ed: Thinking about Lrng, Tchg	_____	1
PHY 127 or higher	_____	1
MAT 115 or higher	_____	1

AND
Two (2) courses chosen from the following: ART 110, CSC 111, CSC 124, CSC 126, SENS 100 or other TAD courses

___ ___: _____ _____ 1
___ ___: _____ _____ 1

AND
One (1) course chosen from the following: ANR 130 or 140, BIO 100 or 110, CHM 101, EDS 228, or WGS 310

___ ___: _____ _____ 1

ELECTIVES (count in 20 credits outside the major, unless in TAD rubric)
Dept. & No.	Title	Term	Credit
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____
___ ___:	_____	_____	_____

NOTE: In addition to completing specified course requirements, each student must satisfy departmental standards for written and oral communication.

[a]May be waived on basis of test scores.

[b]Transfer students might waive GSTR 110 if they took College Composition as a degree-seeking student at another college AND earned a grade of B or higher.

Learning Goal 1: Develop understanding and skills within the Discipline and throughout the Liberal Arts

<u>Learning Outcome 1.1:</u> Demonstrate critical thought, problem solving, analysis and synthesis
<u>Learning Outcome 1.2:</u> 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.
<u>Learning Outcome 2.3:</u> 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.