

KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **1-Oct-17** Curriculum Bulletin _____
Effective Date **Fall 2018** Approved by EPC _____

Department _____
College **AR - Aeronautics and Engineering**
Degree **BS - Bachelor of Science**
Program Name **Technology** Program Banner Code **TECH**
Concentration(s) _____ Concentration(s) Banner Code(s) _____
Proposal **Inactivate program**

Description of proposal:

Proposed inactivation of the BS Technology major and its Technology Education Licensure concentration. Admission to the degree program was suspended spring 2018.

Does proposed revision change program's total credit hours? Yes No
Current total credit hours: **120** Proposed total credit hours _____

Describe impact on other programs, policies or procedures (e.g., duplication issues; enrollment and staffing considerations; need; audience; prerequisites; teacher education licensure):

No impact - courses in the program are offered regularly and will continue to be offered for other degree programs in and out of the college.

Units consulted (other departments, programs or campuses affected by this proposal):
Inactivation of this major does not affect other units.

REQUIRED ENDORSEMENTS

Department Chair / School Director _____ / /

Campus Dean (for Regional Campuses proposals) _____ / /

Robert G. Series Jr.
College Dean (or designee) _____ 10 | 3 | 2017

Dean of Graduate Studies (for graduate proposals) _____ / /

Senior Vice President for Academic Affairs and Provost (or designee) _____ / /



Department of Higher Education

John R. Kasich, Governor
John Carey, Chancellor

PROGRAM INACTIVATION FORM

Date of submission: [to come]

Name of institution: Kent State University

Title of program to be inactivated: Technology major within the Bachelor of Science degree

Date that the inactivation received final approval from the appropriate institutional committee: [Board of Trustees date]

Primary institutional contact for the notification:

Name: Therese E. Tillett
Title: Executive Director, Curriculum Services, Office of the Provost
Phone: 330-672-8558
E-mail: tillet1@kent.edu

Educator Preparation Programs:

Program leads to licensure: No
 Program leads to endorsement: No

1. Provide the rationale for the inactivation of the program:

In the past several years, the BS degree in Technology has had a significant decline in enrollment due to reorganization and establishment of other, more robust and viable, technology-related programs at the university. In addition, the College of Aeronautics and Engineering, which administers the major, is developing a strategy to clearly define its mission and objectives that, in the future, will focus more on engineering and ABET-accredited programs at the undergraduate and graduate levels. While the Technology major has served an important purpose at Kent State for decades, the program no longer aligns with employer need, nor does it fit within the direction of the college.

The technology program has had a long history at Kent State University, beginning with the inception, in 1913, of a manual training department to produce industrial arts teachers and practitioners. A bachelor's degree in industrial arts was established in the 1930s. Through the years, the program's emphasis in industry and technology shifted with the changing times, moving from woods and metals to manufacturing, construction and energy/power among other areas in need of skilled technologists. In the 1980s, the name changed from industrial arts to technology, and the major began to offer concentrations that articulated (2+2) with technical associate degree programs at Kent State's regional campuses. The major later introduced a concentration in construction management. In 2010, nearly 760 students were enrolled in the major across all eight Kent State campuses.

As Kent State's organization structure changed and evolved, so did the program. In 2012, the Regional College was created, and programs serving primarily the regional campuses were moved under the new college, including the Technology major's 2+2 concentrations. Those concentrations became part of newly established bachelor's degree majors Engineering Technology and Technical and Applied Studies. The construction management concentration, which had seen tremendous growth, became a separate major and later moved to the College of Architecture and Environmental Design.

Those moves left the Technology major as a generalist program with an optional concentration for students who wanted to become technical educators at the high school level. Enrollment in the teacher education concentration dropped considerably over the years as teaching positions in the field became difficult to secure in the state. That concentration was suspended four years ago. While efforts were made over a two-year period to revive the program, no significant evidence or data regarding the future for technology education programs at the state and national level has confirmed the program should continue.

2. Indicate number of students currently enrolled in the program:

Admission to the Technology major was suspended for spring 2018. For fall 2017 (15th day census), there are eight students declared in the Technology major.

3. Describe how the inactivation of the program will affect students currently in the program and explain plans for notifying students and assisting them in the completion of their degrees.

Of the eight students in the major, five are finishing a concentration that is no longer in Technology, but now is in either the Engineering Technology major or Technical and Applied Studies major. As all the coursework for their program is offered regularly, these students will be able to complete the requirements for their program in a timely manner—they may change their program of study to a different major, but are not obligated to do so to earn their degree.

The remaining three students have declared their intention to pursue a different program at Kent State, and advisors have reached out to them to submit a change of program form. However, if they choose to continue in the Technology major, they will be able to complete the requirements to graduate, as all courses in the program are offered regularly, with the exception of one (see explanation below). No students are in the teacher education concentration.

4. Will there be a loss of faculty or staff positions because of the inactivation of the program? If so, indicate when the faculty or staff members were or will be informed.

There will be no loss of faculty or staff due to the inactivation of this degree program. All of the technology courses required for the major, with the exception of one, are offered regularly and will continue to be offered for other degree programs, including aeronautics, applied engineering, aerospace engineering, engineering technology, interior design and construction management. The one exception—TECH 31087 Design for Technology—has not been taught since fall 2013 (as faculty teaching the course have either retired or resigned). This course is not required for the majority of enrolled students in the major. Another course will be offered in its place for the students for which it is required.

The two technology courses dedicated to teacher education—TECH 41003 Methods and Organization in Technology Education and TECH 49525 Inquiry into Professional Practice—are no longer offered and will be inactivated in the future. They were last offered several years ago, taught by a faculty member now retired. They are not required for any students currently in the program.

5. Describe the plan for communicating the inactivation of the program, including changes to the college catalog and college website and communications with advisors, admissions officers and financial aid officers:

The Office of Undergraduate Admissions has been notified and is communicating the program's inactivation to prospective students. No students (either new, current or returning) were admitted to the program in spring 2018 or later. Notice of its suspension is in the University Catalog and on Kent State's Explore Programs and Degrees website. No mention of the program is on the college's website.

6. Indicate the final date that the program will be operational:

The program will be inactivated for fall 2018 and will no longer be listed in any Kent State materials for prospective students. Kent State University affirms that it will provide the necessary resources and means for enrolled students to complete the program.

Respectfully,

Todd A. Diacon, PhD
Senior Vice President for Academic Affairs and Provost
Kent State University

TECHNOLOGY - B.S.

College of Aeronautics and Engineering

Aeronautics and Technology Building

Kent Campus

330-672-2892

caest@kent.edu

www.kent.edu/caest

Description

The Bachelor of Science in Technology provides students with a breadth of knowledge and experience and gives students the option of using electives to develop depth in a chosen area. This program is best suited for students with general career goals or who want depth of knowledge in a specific technical area such as casting or quality. **Effective spring 2018, admissions is suspended.**

Technology Education Licensure is an optional concentration that provides students the opportunity to learn the application of technical skills in concert with educational expertise through targeted courses in the College of Education, Health, and Human Services. Students completing the technology education concentration are prepared to take the state licensing exam for teachers (K-12). **ADMISSIONS SUSPENDED**

Accreditation

Association of Technology, Management and Applied Engineering

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

Freshman Students on the Kent Campus: The freshman admission policy on the Kent Campus is selective. Admission decisions are based upon the following: cumulative grade point average, ACT and/or SAT scores, strength of high school college preparatory curriculum and grade trends. The Admissions Office at the Kent Campus may defer the admission of students who do not meet admissions criteria but who demonstrate areas of promise for successful college study. Deferred applicants may begin their college coursework at one of seven Regional Campuses of Kent State University. For more information on admissions, including additional requirements for some academic programs, visit the admissions website for new freshmen.

Freshman Students on the Regional Campuses: Kent State campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Regional Academic Center in Twinsburg, have open enrollment admission for students who hold a high school diploma, GED or equivalent.

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score or minimum 48 PTE Academic score, or by completing the ELS level 112 Intensive Program. For more information

on international admission, visit the Office of Global Education's admission website.

Transfer, Transitioning and Former Students: For more information about admission criteria for transfer, transitioning and former students, please visit the admissions website.

ADMISSIONS SUSPENDED for the Technology Education Licensure concentration

Effective spring 2018, admissions is suspended for the Technology major.

Program Learning Outcomes

Graduates of this program will be able to:

1. Demonstrate broad knowledge and skills in the areas of manufacturing systems, electronics and digital systems, computer aided design and animation, materials and processes, automation systems, and technology management.
2. Demonstrate a broad understanding and appreciation of technology.
3. Demonstrate the ability to apply high-technology knowledge and skills to succeed in the changing knowledge economy.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Requirement	Credits/ Courses
Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39 (or 42)
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate. Students in a B.A. and/or B.S. degree in the College of Arts and Sciences must complete 42 upper-division credit hours.	
Total Credit Hour Requirement	120
Some bachelor's degrees require students to complete more than 120 credit hours.	

Kent Core Requirements

Requirement	Credits/ Courses
Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3

Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Effective spring 2018, admissions is suspended for the Technology major.

Program Requirements

Major Requirements

Major Requirements (courses count in major GPA)

CMGT 31015	CONSTRUCTION TECHNOLOGY	3
ID 24023	FURNITURE DESIGN I-WOOD	3
TECH 10001	INFORMATION TECHNOLOGY	3
TECH 13580	ENGINEERING GRAPHICS I	3
TECH 20001	ENERGY/POWER	3
TECH 20002	MATERIALS AND PROCESSES	3
TECH 23581	COMPUTER-AIDED ENGINEERING GRAPHICS	3
TECH 31000	CULTURAL DYNAMICS OF TECHNOLOGY (DIVD) (WIC) (min C grade) ¹	3
TECH 31016	MANUFACTURING TECHNOLOGY	3
TECH 31087	DESIGN FOR TECHNOLOGY	3
TECH 32002	MATERIALS AND PROCESSES II	3

Additional Requirements (courses do not count in major GPA)

COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
MATH 11022	TRIGONOMETRY (KMCR)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Composition		6
Kent Core Humanities and Fine Arts (minimum one course from each)		9

Additional Major Requirement or Concentration Requirements

Choose from the following:	56
Additional Major Requirement for those not choosing concentration	
Technology Education Licensure ADMISSIONS SUSPENDED	
Minimum Total Credit Hours:	120

¹ A minimum C grade must be earned to fulfill the writing-intensive requirement.

Additional Major Requirement (for those not choosing the concentration)

[AR-BS-TECH]

Additional Major Requirements (courses count in major GPA)

MIS 24163	PRINCIPLES OF MANAGEMENT ¹	3
MIS 24056	FUNDAMENTALS OF BUSINESS STATISTICS	3
or MIS 34180	HUMAN RESOURCE MANAGEMENT	
TECH 21021	SURVEY OF ELECTRICITY AND ELECTRONICS	4
TECH 43800	APPLIED ENGINEERING TECHNOLOGY SEMINAR (ELR)	3
Technology Upper-Division Electives (TECH 30000 or 40000 level)		18

Additional Program Requirements (courses do not count in major GPA)

ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PSYC 31773	INDUSTRIAL PSYCHOLOGY	3
Physics options, choose from the following:		10

General College Physics option

PHY 13001	GENERAL COLLEGE PHYSICS I (KBS)	
PHY 13002	GENERAL COLLEGE PHYSICS II (KBS)	
PHY 13021	GENERAL COLLEGE PHYSICS LABORATORY I (KBS) (KLAB)	
PHY 13022	GENERAL COLLEGE PHYSICS LABORATORY II (KBS) (KLAB)	

Technical Physics option

PHY 12201	TECHNICAL PHYSICS I (KBS) (KLAB)	
PHY 12202	TECHNICAL PHYSICS II (KBS) (KLAB)	

Kent Core Basic Sciences

General Electives (total credits hours depends on earning 120 credit hours, including 39 upper-division credit hours) (minimum 4 upper-division credit hours)	9
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Minimum Total Credit Hours: 56

¹ Equivalent to BMRT 11009

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.250	2.000

Technology Education Licensure concentration ADMISSIONS SUSPENDED

[AR-BS-TECH-TEDL]

Licensure Requirement (not required for graduation):

Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

Concentration Requirements (courses count in major GPA)

CI 47330	READING AND WRITING IN ADOLESCENCE/ADULTHOOD	3
CULT 29535	EDUCATION IN A DEMOCRATIC SOCIETY (min C grade)	3
EPSY 29525	EDUCATIONAL PSYCHOLOGY (min C grade)	3
HED 42575	HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS	3
ITEC 39525	EDUCATIONAL TECHNOLOGY	3
SPED 23000	INTRODUCTION TO EXCEPTIONALITIES (DIVD) (min C grade)	3
TECH 41003	METHODS AND ORGANIZATION IN TECHNOLOGY EDUCATION	3
TECH 43080	INDUSTRIAL AND ENVIRONMENTAL SAFETY	3
TECH 49525	INQUIRY INTO PROFESSIONAL PRACTICE (min C grade)	3

Additional Requirements (courses do not count in major GPA)

CMGT 31040	ELECTRICAL SYSTEMS FOR CONSTRUCTION MANAGERS	3
Kent Core Basic Sciences (must include a laboratory)		8

Kent Core Social Sciences (cannot be PSYC)	3
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Minimum Total Credit Hours:	41
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Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Course	Title	Credits
Semester One		
! MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	3
! TECH 10001	INFORMATION TECHNOLOGY	3
! TECH 13580	ENGINEERING GRAPHICS I	3
! TECH 20002	MATERIALS AND PROCESSES	3
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Kent Core Requirement		3
Credit Hours		16
Semester Two		
! MATH 11022	TRIGONOMETRY (KMCR)	3
! TECH 23581	COMPUTER-AIDED ENGINEERING GRAPHICS	3
ECON 22060	PRINCIPLES OF MICROECONOMICS (KSS)	3
PSYC 11762	GENERAL PSYCHOLOGY (DIVD) (KSS)	3
Kent Core Requirement		3
Credit Hours		15
Semester Three		
! ENG 20002	INTRODUCTION TO TECHNICAL WRITING	3
ID 24023	FURNITURE DESIGN I-WOOD	3
! MIS 24163	PRINCIPLES OF MANAGEMENT ¹	3
! Physics courses		3-5
Kent Core Requirement		3
Credit Hours		15
Semester Four		
! TECH 20001	ENERGY/POWER	3
! CMGT 31015	CONSTRUCTION TECHNOLOGY	3
! Physics courses		5-7
COMM 15000	INTRODUCTION TO HUMAN COMMUNICATION (KADL)	3
Credit Hours		14
Semester Five		
! TECH 21021	SURVEY OF ELECTRICITY AND ELECTRONICS	4
! TECH 31016	MANUFACTURING TECHNOLOGY	3
! TECH 32002	MATERIALS AND PROCESSES II	3
Kent Core Requirement		3
Kent Core Requirement		3
Credit Hours		16
Semester Six		
! MIS 24056 or MIS 34180	FUNDAMENTALS OF BUSINESS STATISTICS or HUMAN RESOURCE MANAGEMENT	3
TECH 31000	CULTURAL DYNAMICS OF TECHNOLOGY (DIVD) (WIC)	3
Technology Upper-Division Electives (TECH 30000 or 40000 level)		3
General Electives		6
Credit Hours		15

Semester Seven

! TECH 31087	DESIGN FOR TECHNOLOGY	3
! TECH 43800	APPLIED ENGINEERING TECHNOLOGY SEMINAR (ELR)	3
PSYC 31773	INDUSTRIAL PSYCHOLOGY	3
Technology Upper-Division Electives (TECH 30000 or 40000 level)		6
Credit Hours		15

Semester Eight

Technology Upper-Division Electives (TECH 30000 or 40000 level)		9
General Electives		3
Credit Hours		12
Minimum Total Credit Hours:		118