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| For Academic Affairs and Research Use Only |
| Proposal Number | ECS09 |
| CIP Code:  |  |
| Degree Code: |  |
|  2+2/MOUs: |  |

**Emphasis, Concentration, Option, or Minor Deletion Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| Rajesh Sharma | 2/25/2022 |

**Department Curriculum Committee Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**COPE Chair (if applicable)** |
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| Rajesh Sharma | 2/25/2022 |

**Department Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Head of Unit (if applicable)**   |
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| Jason Stewart | 2/25/2022 |

**College Curriculum Committee Chair** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Undergraduate Curriculum Council Chair** |
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| Abhijit Bhattacharyya | 2/25/2022 |

**College Dean** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Graduate Curriculum Committee Chair** |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**General Education Committee Chair (if applicable)**   |

|  |  |
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| Alan Utter | 3/14/2022 |

**Vice Chancellor for Academic Affairs** |

1. **Contact Person** (Name, Email Address, Phone Number)

Rajesh Sharma, rsharma@astate.edu, 870-972-2270

1. **Type of deletion request:**
2. [**X**] Emphasis
3. [ ] Concentration
4. [ ] Option
5. [ ]Minor
6. **Title of emphasis, concentration, option, or minor**

Technology Management

1. **Number of students still enrolled in emphasis, concentration, option, or minor:**

8

1. **How will students in the deleted emphasis, concentration, option, or minor be accommodated?**

All the students currently enrolled in this emphasis will be allowed to complete the degree.

1. **Last semester and year for graduation.**

Spring 2025

1. **Last semester for new admissions?**

Spring 2022

1. **When will written notification providing deletion information be sent to enrolled students? (In the notification, include semester and year of the last award and how student will be accommodated.)**

Written notification would be provided to all the enrolled students in this emphasis before end of the Spring 2022 semester

1. **Provide documentation of written notification to students currently enrolled in emphasis, concentration, option, or minor.**

See above

1. **Please provide a short justification for why this emphasis, concentration, option, or minor is being deleted.**

College of Engineering and Computer Science added a new degree program- Bachelor of Science in Engineering Management Systems in 2021. The learning outcomes and objectives of this new program have a significant overlap with the existing Technology Management emphasis in Engineering Technology program. Two degree programs with similar names and objectives in the same college can cause confusion among potential students. Deletion of this emphasis will help us serve our students better, remove redundancy and allow for effective utilization of resources.

**Bulletin Changes**

|  |
| --- |
| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  |

Paste bulletin pages here...

**Before changes**

|  |
| --- |
| Multimedia Journalism |
| Occupational and Environmental Safety and Health |
| Physics |
| Psychology |
| Sport Management: |
| Strategic Communication (emphasis in):—Advertising—Public Relations—Social Media Management |
| Engineering Technology (emphasis in):—Computer Aided Drafting and Design—Computer Systems—Technical Studies~~—Technology Management~~ |
| Wildlife, Fisheries and Conservation (em phasis in):—Fisheries—Wildlife |

**Bachelor of Science in Agriculture (B.S.A.)**

|  |
| --- |
| Agricultural Business:—Agricultural Economics and Finance—Agricultural Marketing and Management |
| Agricultural Studies (emphasis in):—Agricultural Communications—Agricultural Education—Agricultural Science—Agricultural Systems Technology |
| Animal Science (emphasis in):—Equine Management—Pre-Veterinary—Production and Management |
| Plant and Soil Science (emphasis in):—Agronomy—Environmental Horticulture |

**Bachelor of Science in Civil Engineering (B.S.C.E.)**

|  |
| --- |
| Civil Engineering |

**Bachelor of Science in Education (B.S.E.)**

|  |
| --- |
| Elementary Education |
| English |
| General Sciences (emphasis in):—Biology—Chemistry—Physics |
| Mathematics |
| Middle Level Education |
| Physical Education |
| Social Science |

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**Engineering Technology Program**

**Associate Professor:** *Sharma*

**Instructors:** *Ren, White*

**MISSION STATEMENT**

The Engineering Technology Program at Arkansas State University strives to provide a quality technical education necessary for a successful career in various industries. This program prepares students for a wide range of technical careers ranging from manufacturing, management, operations and upcoming renewable energy sector. Graduates of this program are expected to possess technology fundamentals and hands-on technical skills. This program has two intertwined objectives: serving the needs of quality technical education in the region, and supporting the local industry and economy by providing a qualified workforce.

**BACHELOR OF SCIENCE DEGREE**

The Bachelor of Science degree with a Major in Engineering Technology offers four emphasis areas: *Computer Aided Drafting and Design, Computer Systems, Technical Studies, and Technology Management.* Each program will be tailored to meet the needs of the career specifications designated by the student.

The ***Computer Aided Drafting and Design*** option is focused to develop and train qualified personnel in the use of computer aided technology for designing objects, real or virtual. The design of geometrics models using parametric procedures, using driven dimension, and tolerances. These procedures in CAD, will allow students the ability to apply the principles in manufacturing settings. Graduates with this emphasis will serve all manufacturing clients such as Civil, Mechanical, Electrical, and Industrial engineering groups.

The ***Computer Systems*** option is designed to prepare students to manage and troubleshoot com- puter networks in various settings. Students in this emphasis area take computer networking courses at 2+2 partner institutions.

The ***Technical Studies*** option is designed to permit the student to tailor a program in accordance with his/her specific interests for which a traditional baccalaureate degree is not attainable. Students who have successfully completed some of the degree requirements in an occupational environment may continue their education under this educational umbrella.

~~The~~ ***~~Technology Management~~*** ~~option is designed to prepare a student to apply theories, per-ceptions, and principles established in the humanities and social and behavioral sciences, as well as sound business practices in a technology-oriented environment. Graduates with this emphasis will serve as liaison between manufacturing or industrial production and the administrators of a company. Consequently, a sound understanding of the basic principles of business, personnel management, and management techniques will be mandatory.~~

Prior Learning Assessment is a program that enables students to earn college credit for learning acquired outside of the traditional college classroom. Seminars are provided to assist students in the development of prior learning portfolios. Upon completion of the assessment process, up to 25 percent of the degree requirements may be awarded using TECH 3721-9, Technical Career Subjects and/or TECH 1891-9, Occupational Studies Credit.

Students who are graduates of two-year occupational programs may be considered as candidates to enroll in the Bachelor of Science - Engineering Technology degree program.

The Bachelor of Science - Engineering Technology degree is accredited by the Higher Learning Commission.

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

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**~~Major in Engineering Technology~~**

**~~Bachelor of Science Emphasis in Technology Management~~**

~~A complete 8-semester degree plan is available at~~ [~~https://www.astate.edu/info/academics/degrees/~~](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **~~University Requirements:~~** |  |
| ~~See University General Requirements for Baccalaureate degrees (p. 47)~~ |  |
| **~~First Year Making Connections Course~~** | **~~Sem. Hrs.~~** |
| ~~UC 1013, Making Connections (or equivalent course)~~ | **~~3~~** |
| **~~General Education Requirements:~~** | **~~Sem. Hrs.~~** |
| ~~See General Education Curriculum for Baccalaureate degrees (p. 84)~~**~~Students with this major must take the following:~~***~~MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)~~* | **~~35~~** |
| **~~Major Requirements:~~**~~Grade of “C” or better required for all Major Requirements~~ | **~~Sem. Hrs.~~** |
| ~~ISBA 3013 Management Information Systems~~ | ~~3~~ |
| ~~ENG 3043, Technical Writing~~ | ~~3~~ |
| ~~MGMT 3153, Organizational Management~~ **~~OR~~**~~Sociology Elective~~ **~~OR~~**~~Psychology Elective~~ | ~~3~~ |
| ~~RET 3113, Fund. Applications of Renewable Energy~~ | ~~3~~ |
| ~~TECH 3773, Statistics~~ **~~OR~~**~~STAT 3233, Applied Statistics I~~ | ~~3~~ |
| ~~TECH 3863, Industrial Safety~~ | ~~3~~ |
| ~~TECH 4813, Operations Systems Research~~ | ~~3~~ |
| ~~TECH 4823, Quality Assurance~~ | ~~3~~ |
| ~~TECH 4853, Lean 6 Sigma for Manufacturing~~ | ~~3~~ |
| ~~TECH 4883, Work Center Management~~ | ~~3~~ |
| **~~Sub-total~~** | **~~30~~** |
| **~~Emphasis Area (Technology Management):~~**~~Grade of “C” or better required for all Emphasis Area Requirements~~ | **~~Sem. Hrs.~~** |
| ~~RET 4123, Energy Conservation and Efficiency~~ | ~~3~~ |
| ~~TECH 2863, Principles of Technology~~ | ~~3~~ |
| ~~TECH 3713, Fiscal Aspects~~ | ~~3~~ |
| ~~TECH 3753, Legal Aspects~~ | ~~3~~ |
| ~~TECH 3843, Manufacturing Materials and Processes~~ | ~~3~~ |
| ~~Accounting Electives~~ | ~~3-6~~ |
| ~~Management Electives~~ | ~~6-9~~ |
| ~~Technology and Renewable Energy Technology Electives (TECH, RET)~~ | ~~3-9~~ |
| **~~Sub-total~~** | **~~33~~** |
| **~~Electives:~~** | **~~Sem. Hrs.~~** |
| ~~Electives~~ | **~~19~~** |
| **~~Total Required Hours:~~** | **~~120~~** |

*~~The bulletin can be accessed at~~* [*~~https://www.astate.edu/a/registrar/students/bulletins/~~*](http://www.astate.edu/a/registrar/students/bulletins/)

~~221~~

**After changes**

|  |
| --- |
| Multimedia Journalism |
| Occupational and Environmental Safety and Health |
| Physics |
| Psychology |
| Sport Management: |
| Strategic Communication (emphasis in):—Advertising—Public Relations—Social Media Management |
| Engineering Technology (emphasis in):—Computer Aided Drafting and Design—Computer Systems—Technical Studies |
| Wildlife, Fisheries and Conservation (em phasis in):—Fisheries—Wildlife |

**Bachelor of Science in Agriculture (B.S.A.)**

|  |
| --- |
| Agricultural Business:—Agricultural Economics and Finance—Agricultural Marketing and Management |
| Agricultural Studies (emphasis in):—Agricultural Communications—Agricultural Education—Agricultural Science—Agricultural Systems Technology |
| Animal Science (emphasis in):—Equine Management—Pre-Veterinary—Production and Management |
| Plant and Soil Science (emphasis in):—Agronomy—Environmental Horticulture |

**Bachelor of Science in Civil Engineering (B.S.C.E.)**

|  |
| --- |
| Civil Engineering |

**Bachelor of Science in Education (B.S.E.)**

|  |
| --- |
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| English |
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| Mathematics |
| Middle Level Education |
| Physical Education |
| Social Science |

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