|  |  |
| --- | --- |
| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**Program Modification Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **Modification Type: [ ]Admissions, [ ]Curricular Sequence, or [X]Other** |

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Rajesh Sharma | 2/11/2020 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Rajesh Sharma | 2/11/2020 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | Jason Stewart | 2/27/2020 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | Dr. Abhijit Bhattacharyya | 2/28/2020 |   **College Dean** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Vice Chancellor for Academic Affairs** |

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

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

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

Replacing the First Year Making Connections course AGRI 1213 with UC 1013.

Removing AGRI 1213 as an option for TECH 3773.

Specifying the Technical electives in Associate of Science in Technology – TECH, RET, CIT, ENGR, CS, MATH

1. **Effective Date**

Fall 2020

1. **Justification –** *Please provide details as to why this change is necessary.*

AGRI 1213 replaced UC 1013 as Making Connections course in 2009-10, when the Technology Program moved to the College of Agriculture and Technology. As Technology Program is not housed under College of Agriculture anymore, Making Connections is being switched back to UC 1013.

AGRI 3233 was added as an option (along with STAT 3233) for TECH 3773 to provide more flexibility to the students in their degree plans. STAT 3233 has worked very well for the students, hence there is no need for an additional option. Further, AGRI 3233 has not been offered since 2018.

Technical electives are being specified to provide clarity in Associate of Science – Technology curriculum.

**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**

**Major in Technology**

**Bachelor of Science**

**Emphasis in Computer Aided Drafting and Design**

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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| AGRI 1213, Making Connections in Agriculture | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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)* |  |

|  |  |
| --- | --- |
| **Major Requirements:**  Grade of “C” or better required for all Major Requirements | **Sem. Hrs.** |
| CIT 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 **OR**  AGRI 3233, Applied Agricultural Statistics | 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 (Computer Aided Drafting and Design):**  Grade of “C” or better required for all Emphasis Area Requirements | **Sem. Hrs.** |
| MATH 1033, Plane Trigonometry | 3 |
| TECH 2703 Technical Graphics and AutoCAD | 3 |
| TECH 2863, Principles of Technology | 3 |
| TECH 3413, AutoCAD / Inventor | 3 |
| TECH 3433, AutoCAD 3-D Modeling | 3 |
| TECH 3453, Advanced Technology Design - Solid Works | 3 |
| TECH 3843, Manufacturing Materials and Processes | 3 |
| TECH 3853, Computer Aided Manufacturing (CAM) | 3 |
| TECH 3873, Tool Design | 3 |
| TECH 4743, Computer Numeric Control | 3 |
| TECH 4873, Motion and Time Study | 3 |
| **Sub-total** | **33** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **19** |
| **Total Required Hours:** | **120** |

118

**Major in Technology**

**Bachelor of Science Emphasis in Computer Systems**

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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| AGRI 1213, Making Connections in Agriculture | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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.** |
| CIT 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 **OR**  AGRI 3233, Applied Agricultural Statistics | 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 (Computer Systems):**  Grade of “C” or better required for all Emphasis Area Requirements  Courses denoted below with an asterisk (\*) cannot be taken on the A-State campus; they are taught only at the 2+2 program institutions. | **Sem. Hrs.** |
| RET 4123, Energy Conservation and Efficiency | 3 |
| \* TECH 1013, Networking Essentials - Cisco I | 3 |
| \* TECH 1023, Router Technologies - Cisco II | 3 |
| \* TECH 2033, Advanced Routing and Switching - Cisco III | 3 |
| \* TECH 2043, WAN Technologies and Design - Cisco IV | 3 |
| TECH 2863, Principles of Technology | 3 |
| Technology and Renewable Energy Technology Electives (TECH, RET) | 15 |
| 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/)

119

**Major in Technology**

**Bachelor of Science Emphasis in Technical Studies**

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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| AGRI 1213, Making Connections in Agriculture | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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.** |
| CIT 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 **OR**  AGRI 3233, Applied Agricultural Statistics | 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 (Technical Studies):**  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 3843, Manufacturing Materials and Processes | 3 |
| Technical Electives (ENGR, MATH, PHYS, CHEM, RET, CIT) | 12 |
| Technology and Renewable Energy Technology Electives (TECH, RET) | 12 |
| **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/)

120

**Major in 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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| AGRI 1213, Making Connections in Agriculture | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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.** |
| CIT 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 **OR**  AGRI 3233, Applied Agricultural Statistics | 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/)

121

**ASSOCIATE OF SCIENCE IN TECHNOLOGY**

The Associate of Science degree with a major in Technology will allow the student to meet the general education requirements, the degree preconditions, and utilize the opportunities to exercise work experience or prior education that may contribute to this degree option.

The program allows students to participate in a two-year program to meet the needs of industry while preserving the option of earning a baccalaureate degree in the future. It permits industry to meet its educational and training requirements when a four-year degree is not warranted.

The student must complete a minimum of 60 credit-hours of work and must adhere to all policies established by the university. Flexibility is provided through counseling and the review of prior experience which may be substituted for formal college credit.

The Associate of Science-Technology is accredited by The Higher Learning Commission.

**Major in Technology**

**Associate of Science**

**University Requirements:**

See University General Requirements for Associate degrees (p. 43)

**General Education Requirements: Sem. Hrs.**

See General Education Curriculum for Associate of Science Degrees (p. 79) 35

**Students with this major must take the following:**

*MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*

|  |  |
| --- | --- |
| **Major Requirements:** | **Sem. Hrs.** |
| TECH 2703, Technical Graphics and AutoCAD | 3 |
| TECH 2863, Principles of Technology | 3 |
| TECH 3773, Statistics **OR**  STAT 3233, Applied Statistics I **OR**  AGRI 3233, Applied Agricultural Statistics | 3 |
| Technology Electives | 9 |
| **Sub-total** | **18** |
| **Electives:** | **Sem. Hrs.** |
| Technical Electives | **7** |
| **Total Required Hours:** | **60** |

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

122

**AFTER CHANGES**

**Major in Technology**

**Bachelor of Science**

**Emphasis in Computer Aided Drafting and Design**

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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| ~~AGRI 1213, Making Connections in Agriculture~~ UC 1013, Making Connections (or equivalent course) | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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)* |  |

|  |  |
| --- | --- |
| **Major Requirements:**  Grade of “C” or better required for all Major Requirements | **Sem. Hrs.** |
| CIT 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 **~~OR~~**  ~~AGRI 3233, Applied Agricultural Statistics~~ | 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 (Computer Aided Drafting and Design):**  Grade of “C” or better required for all Emphasis Area Requirements | **Sem. Hrs.** |
| MATH 1033, Plane Trigonometry | 3 |
| TECH 2703 Technical Graphics and AutoCAD | 3 |
| TECH 2863, Principles of Technology | 3 |
| TECH 3413, AutoCAD / Inventor | 3 |
| TECH 3433, AutoCAD 3-D Modeling | 3 |
| TECH 3453, Advanced Technology Design - Solid Works | 3 |
| TECH 3843, Manufacturing Materials and Processes | 3 |
| TECH 3853, Computer Aided Manufacturing (CAM) | 3 |
| TECH 3873, Tool Design | 3 |
| TECH 4743, Computer Numeric Control | 3 |
| TECH 4873, Motion and Time Study | 3 |
| **Sub-total** | **33** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **19** |
| **Total Required Hours:** | **120** |

118

**Major in Technology**

**Bachelor of Science Emphasis in Computer Systems**

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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| ~~AGRI 1213, Making Connections in Agriculture~~ UC 1013, Making Connections (or equivalent course) | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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.** |
| CIT 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 **~~OR~~**  ~~AGRI 3233, Applied Agricultural Statistics~~ | 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 (Computer Systems):**  Grade of “C” or better required for all Emphasis Area Requirements  Courses denoted below with an asterisk (\*) cannot be taken on the A-State campus; they are taught only at the 2+2 program institutions. | **Sem. Hrs.** |
| RET 4123, Energy Conservation and Efficiency | 3 |
| \* TECH 1013, Networking Essentials - Cisco I | 3 |
| \* TECH 1023, Router Technologies - Cisco II | 3 |
| \* TECH 2033, Advanced Routing and Switching - Cisco III | 3 |
| \* TECH 2043, WAN Technologies and Design - Cisco IV | 3 |
| TECH 2863, Principles of Technology | 3 |
| Technology and Renewable Energy Technology Electives (TECH, RET) | 15 |
| 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/)

119

**Major in Technology**

**Bachelor of Science Emphasis in Technical Studies**

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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| ~~AGRI 1213, Making Connections in Agriculture~~ UC 1013, Making Connections (or equivalent course) | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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.** |
| CIT 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 **~~OR~~**  ~~AGRI 3233, Applied Agricultural Statistics~~ | 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 (Technical Studies):**  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 3843, Manufacturing Materials and Processes | 3 |
| Technical Electives (ENGR, MATH, PHYS, CHEM, RET, CIT) | 12 |
| Technology and Renewable Energy Technology Electives (TECH, RET) | 12 |
| **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/)

120

**Major in 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. 42) |  |
| **First Year Making Connections Course** | **Sem. Hrs.** |
| ~~AGRI 1213, Making Connections in Agriculture~~ UC 1013, Making Connections (or equivalent course) | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **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.** |
| CIT 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 **~~OR~~**  ~~AGRI 3233, Applied Agricultural Statistics~~ | 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/)

121

**ASSOCIATE OF SCIENCE IN TECHNOLOGY**

The Associate of Science degree with a major in Technology will allow the student to meet the general education requirements, the degree preconditions, and utilize the opportunities to exercise work experience or prior education that may contribute to this degree option.

The program allows students to participate in a two-year program to meet the needs of industry while preserving the option of earning a baccalaureate degree in the future. It permits industry to meet its educational and training requirements when a four-year degree is not warranted.

The student must complete a minimum of 60 credit-hours of work and must adhere to all policies established by the university. Flexibility is provided through counseling and the review of prior experience which may be substituted for formal college credit.

The Associate of Science-Technology is accredited by The Higher Learning Commission.

**Major in Technology**

**Associate of Science**

**University Requirements:**

See University General Requirements for Associate degrees (p. 43)

**General Education Requirements: Sem. Hrs.**

See General Education Curriculum for Associate of Science Degrees (p. 79) 35

**Students with this major must take the following:**

*MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite*

|  |  |
| --- | --- |
| **Major Requirements:** | **Sem. Hrs.** |
| TECH 2703, Technical Graphics and AutoCAD | 3 |
| TECH 2863, Principles of Technology | 3 |
| TECH 3773, Statistics **OR**  STAT 3233, Applied Statistics I**~~OR~~**  ~~AGRI 3233, Applied Agricultural Statistics~~ | 3 |
| Technology Electives | 9 |
| **Sub-total** | **18** |
| **Electives:** | **Sem. Hrs.** |
| Technical Electives (TECH, RET, CIT, ENGR, CS, MATH) | **7** |
| **Total Required Hours:** | **60** |

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

122