Code # AG21 (2014)

**Bulletin Change Transmittal Form**

**Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.

**Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [pheath@astate.edu](mailto:pheath@astate.edu)

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| **Bulletin Change** Please attach a copy of all catalogue pages requiring editorial changes. |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (If applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

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

Rajesh Sharma, [rsharma@astate.edu](mailto:rsharma@astate.edu), 2270

**2.Proposed Change**

Adding AGRI 3233. Applied Agricultural Statistics and STAT 3233. Applied Statistics I as an substitute for TECH 3773 in core requirement for BS-Technology, BAS and AS-Technology degrees

**3.Effective Date**

8/24/2015

**4.Justification**

TECH 3773 is a web course which works well for non-traditional, working and off-campus Technology students. Adding AGRI 3233 AND STAT 3233 as a substitute for TECH 3773 will provide an option for on-campus Technology students who would prefer in-class Statistics course. Both of these courses are equivalent to TECH 3773 and cover similar content.

**Major in Technology**

**Bachelor of Science**

**Emphasis in Computer Aided Drafting and Design**

A [complete 8-semester degree plan is available at http://registrar.astate.edu/.](http://registrar.astate.edu/)

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| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 41) |  |
| **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. 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.** |
| 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 2453, Technology Design - Solid Works I | 3 |
| TECH 2863, Principles of Technology | 3 |
| TECH 3413, AutoCAD / Inventor | 3 |
| TECH 3403, Pro Engineer | 3 |
| TECH 3433, AutoCAD 3-D Modeling | 3 |
| TECH 3453, Advanced Technology Design - Solid Works II | 3 |
| TECH 3473, Structural Drafting | 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** | **39** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **13** |
| **Total Required Hours:** | **120** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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**Major in Technology**

**Bachelor of Science**

**Emphasis in Computer Systems**

A [complete 8-semester degree plan is available at http://registrar.astate.edu/.](http://registrar.astate.edu/)

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 41) |  |
| **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. 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.** |
| 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 ASU-J campus; they are taught only at the 2+2 program institutions. | **Sem. Hrs.** |
| \* 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 2053, Building Scalable Networks - Cisco V | 3 |
| \* TECH 2063, Remote Access Networks - Cisco VI | 3 |
| TECH 4843, Labor Relations | 3 |
| TECH 2863, Principles of Technology | 3 |
| Technology Electives | 15 |
| Sub-total | 39 |
| **Electives:** | **Sem. Hrs.** |
| Electives | **13** |
| **Total Required Hours:** | **120** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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**Major in Technology**

**Bachelor of Science**

**Emphasis in Technology Management**

A [complete 8-semester degree plan is available at http://registrar.astate.edu/.](http://registrar.astate.edu/)

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 41) |  |
| **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. 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.** |
| 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.** |
| TECH 2863, Principles of Technology | 3 |
| TECH 3713, Fiscal Aspects | 3 |
| TECH 3753, Legal Aspects | 3 |
| TECH 3843, Manufacturing Materials and Processes | 3 |
| TECH 4843, Labor Relations | 3 |
| Accounting Electives | 3-6 |
| Management Electives | 6-9 |
| Technology Electives | 9-15 |
| **Sub-total** | **39** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **13** |
| **Total Required Hours:** | **120** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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**Major in Technology**

**Bachelor of Science**

**Emphasis in Technical Studies**

A [complete 8-semester degree plan is available at http://registrar.astate.edu/.](http://registrar.astate.edu/)

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 41) |  |
| **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. 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.** |
| 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.** |
| TECH 2863, Principles of Technology | 3 |
| TECH 3843, Manufacturing Materials and Processes | 3 |
| TECH 4843, Labor Relations | 3 |
| Technical Electives (ENGR, MATH, PHYS, CHEM, RET, CIT) | 12 |
| Technology Electives | 18 |
| **Sub-total** | **39** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **13** |
| **Total Required Hours:** | **120** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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**Bachelor of Applied Science (cont.)**

A [complete 8-semester degree plan is available at http://registrar.astate.edu/.](http://registrar.astate.edu/)

|  |  |
| --- | --- |
| **Social Sciences (9 hours required)**  HIST 2763, The United States To 1876  HIST 2773, The United States Since 1876  POSC 2103, Introduction to United States Government  **Select two of the following:**  ANTH 2233, Introduction to Cultural Anthropology  CMAC 1003, Mass Communication  ECON 2313 Principles of Macroeconomics ECON 2333, Economic Issues and Concepts GEOG 2613, Introduction to Geography  HIST 1013, World Civilization to 1660  HIST 1023, World Civilization since 1660  POSC 1003, Introduction to Politics PSY 2013, Introduction to Psychology SOC 2213, Introduction to Sociology | 9 |
| **Sub-total** | **35** |
| **Degree Requirements:** | **Sem. Hrs.** |
| CIT 3013, Management Information Systems | 3 |
| ENG 3043, Technical Writing | 3 |
| MGMT 3153, Organizational Behavior | 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** |
| **AAS Career Block:** | **Sem. Hrs.** |
| AAS Technical Professional Courses  *(Students with less than 40 hours must complete additional coursework to meet the 120 hours degree requirement. (PLA credit may be applicable))* | 40 |
| **Focused Study:** | **Sem. Hrs.** |
| In consultation with their advisor, students must select 15 hours of 3000-4000 level courses within  one area of study. | 15 |
| **Total Required Hours:** | **120** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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**Bachelor of Applied Science (cont.)**

**Emphasis in Renewable Energy Technology**

**A complete 8-semester degree plan is available at http://registrar.astate.edu/.**

|  |  |
| --- | --- |
| **Social Sciences (9 hours required)**  HIST 2763, The United States To 1876  HIST 2773, The United States Since 1876  POSC 2103, Introduction to United States Government  **Select two of the following:**  ANTH 2233, Introduction to Cultural Anthropology  CMAC 1003, Mass Communication  ECON 2313 Principles of Macroeconomics ECON 2333, Economic Issues and Concepts GEOG 2613, Introduction to Geography  HIST 1013, World Civilization to 1660  HIST 1023, World Civilization since 1660  POSC 1003, Introduction to Politics PSY 2013, Introduction to Psychology SOC 2213, Introduction to Sociology | 9 |
| **Sub-total** | **35** |
| **Degree Requirements:** | **Sem. Hrs.** |
| CIT 3013, Management Information Systems | 3 |
| ENG 3043, Technical Writing | 3 |
| MGMT 3153, Organizational Behavior | 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** |
| **AAS Career Block:** | **Sem. Hrs.** |
| AAS Technical Professional Courses  *(Students with less than 40 hours must complete additional coursework to meet the 120 hours degree requirement. (PLA credit may be applicable))* | 40 |
| **Emphasis Area (Renewable Energy Technology):** | **Sem. Hrs.** |
| RET 4013, Process Technology for Agricultural Products | 3 |
| RET 4023, Advanced Bioenergy | 3 |
| RET 4113, Advanced Renewable Energy Systems | 3 |
| RET 4123, Energy Conservation and Efficiency | 3 |
| RET 4313, Wind Energy Technology | 3 |
| **Sub-total** | **15** |
| **Total Required Hours:** | **120** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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**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 62 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. 40)

**General Education Requirements:**

**Sem. Hrs.**

See General Education Curriculum for Associate of Science Degrees (p. 84)

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

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| **Major Requirements:** | **Sem. Hrs.** |
| TECH 1413, Engineering Graphics | 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 | **9** |
| **Total Required Hours:** | **62** |

The bulletin can be accessed at <http://www.astate.edu/a/registrar/students/>

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