Code # AG20 (2015)

**Bulletin / Banner 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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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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** |
| Dr. Timothy Burcham 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)

Dr. Rajesh Sharma, [rsharma@astate.edu](mailto:rsharma@astate.edu), 870-972-2270

**2.Proposed Change**

Changing core curriculum in the Bulletin of the Bachelor of Applied Science with Emphasis in Renewable Energy Technology. Forms/LON for the curriculum change of the base B.A.S. program are also being submitted.

**3.Effective Date**

Fall 2016

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

*To meet the demands of individuals who wish to graduate with a technical degree. Leadership courses have been added to for students who may wish to use the knowledge to start their own business or purse leadership roles.*

*The current Bulletin includes the previous curriculum for the B.A.S. degree in regards to the Renewable Energy Technology emphasis. It will need to be changed to reflect the new degree requirements which is also being submitted to UCC on a separate form/LON.*

**Bulletin Changes**

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| **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. Follow the following guidelines for indicating necessary changes.**  **\*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.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

**Bachelor of Applied Science\***

**Emphasis in Renewable Energy Technology**

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

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| **University Requirements:** |  |
| Students interested in pursuing a Bachelor of Applied Science degree must schedule a personal in- terview with a BAS advisor. During this interview, the advisor will outline in detail the requirements for the BAS program. The advisor and the student will analyze the appropriateness of the degree given the student’s goals and career objectives, the degree’s requirements and the student’s academic progress to date.  **The BAS program requires completion of the following program prerequisites:**  1. Associate of Applied Science (AAS) or other recognized technical-professional associate  degree from an accredited institution.  2. Minimum GPA of 2.00 on all transfer work.  3. Completion of the ASU admission application process with acceptance.  4. Completion of the State Minimum General Education Core.  5. Completion of a total of 120 hours of which 45 hours are upper-level (3000-4000)  6. Minimum GPA of 2.00 on all coursework at ASU and a 2.00 average on all coursework pre-  sented for graduation.  ***\* The Bachelor of Applied Science with emphasis in Renewable Energy Technology degree program does not have a major.*** |  |
| **General Education Requirements:** | **Sem. Hrs.** |
| **Communication (9 hrs required)** COMS 1203, Oral Communications ENG 1003, Composition I (C or Better) ENG 1013, Composition II (C or Better) | 9 |
| **Math (3 hours required)**  MATH 1023, College Algebra (or any MATH course that requires MATH 1023 as a prerequisite) | 3 |
| **Science (8 hours required)**  **Select one of the following combinations:**  BIO 2013 **AND** 1021, Biology of the Cell and Laboratory  BIO 2103 **AND** 2101, Microbiology for Nursing and Laboratory  BIO 2203 **AND** 2201, Human Anatomy and Physiology I and Laboratory  BIOL 1003 **AND** 1001, Biological Science and Laboratory  BIOL 1033 **AND** 1001, Biology of Sex and Laboratory  BIOL 1063 **AND** 1001, People and the Environment and Laboratory  **Select one of the following combinations:**  CHEM 1013 **AND** 1011, General Chemistry I and Laboratory  CHEM 1043 **AND** 1041, Fundamental Concepts of Chemistry and Laboratory  GEOL 1003 **AND** 1001, Environmental Geology and Laboratory  PHSC 1014, Energy and the Environment  PHSC 1203 **AND** 1201, Physical Science and Laboratory PHYS 1103 **AND** 1101, Intro to Space Science and Laboratory PHYS 2034, University Physics I  PHYS 2054, General Physics I | 8 |
| **Fine Arts and Humanities (6 hrs required)**  **Fine Arts (select one of the following):**  ART 2503, Fine Arts-Visual MUS 2503, Fine Arts-Music THEA 2503, Fine Arts-Theatre  **Humanities (select one of the following):**  ENG 2003, World Literature to 1660  ENG 2013, World Literature Since 1660  PHIL 1103, Introduction to Philosophy | 6 |

Bachelor of Applied Science (cont.)

**Emphasis in Renewable Energy Technology**

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

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| **Social Sciences (9 hours required)**  **Select one of the following:**  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 **OR**  Psychology (PSY) elective **OR**  Sociology (SOC) 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~~ ***IDS 4013, Seminar in Professional Development*** | 3 |
| ~~TECH 4813, Operations Systems Research~~ ***IDS 4023, Leadership in the Profession*** | 3 |
| ~~TECH 4823, Quality Assurance~~ ***IDS 3013, Critical Thinking in the Profession*** | 3 |
| ~~TECH 4853, Lean 6 Sigma for Manufacturing~~ ***COMS 4263, Organizational Communication*** | 3 |
| ~~TECH 4883, Work Center Management~~ ***UC 480V, Special Problems*** | 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** |