

Approval Chart for Curriculum Changes

A = Approve I= Information Item¹ R= Advise & Respond²

Course Number AENV 130 or Degree Plan(s) _____
 State the requested change and reason. A memo may be attached if more space is necessary.

Please see the attached memo for the old course outcomes and the revised course outcomes.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

		COUNCIL ³								
	Change to a Course	Dept./School	College Academic	Deans	TEC	UGEC	UAC	GRAD	Provost	President
1.	Title (description unchanged)	A	A	A	I				I	I
2.	Description (not affecting content)	A	A	A	I				I	I
3.	Course term(s)	A	I	A	I				I	I
4.	Content (substantive change)	A	A	A	I				A	I
5.	Number of hours (lecture, lab, contact)	A	A	A	A				A	I
6.	Course number within the hundred	A	A	I	I				I	I
7.	Course number beyond the hundred	A	A	A	A				A	I
8.	Prerequisites	A	A	A	I				I	I
9.	Course fee(s)	A	--	A	--				A	I
10.	From U to G or G to U	A	A	A	A				A	I
11.	Cross list with another department: U or G level	A	A	A	A				A	I
12.	Department of record	A	A	A	A				A	I
13.	Open or close a course	A	A	A	A				A	I
14.	New course — See website for application and process. This change includes combining or splitting a course(s).	A	A	A	A				A	I

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

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		COUNCIL ³										President	Faculty	Provost	GRAD	UUAC	UGEC	TEC	Deans	College Academic	Dept./School	Change to a Degree Plan
1.	University Requirements — Change in approved course content ⁶	A	A	A	A				A	--	A	--	A									
2.	University Requirements --- Add or drop a required course from the University Requirements chart ⁶	A	A	A	A				A	A	A		A									
3.	University Requirements — Add or drop a course from a menu within the University Requirements ⁶	A	--	--	A				A	--	A		A									
4.	University Requirements --- Change hours within a menu on the University Requirements chart ⁶	A	A	A	A				A	A	A		A									
5.	Major — Revision of major ^{4,5}	A	A	A	A				A	--	A		A									
6.	Major — Adopt or change admission requirements	A	A	A	A				A	--	A		A									
7.	Major — Add ^{4,5}	A	A	A	A				A	A	A		A									
8.	Major – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A		A									
9.	Major – Discontinue (proposed by the Provost)	See below.																				
10.	GPA — Revise major or cumulative requirement	A	A	A	A				A	A	A		A									
11.	Minor --- Revise course selection	A	A	A	I				I	--	I		I									
12.	Minor — Add	A	A	A	A				A	--	A		A									
13.	Minor – Discontinue (proposed by the department or college)	A	A	A	A				A	--	A		A									
14.	Minor – Discontinue (proposed by the Provost)	See below.																				
15.	Degree — Add	A	A	A	A				A	A	A		A									
16.	Degree – Discontinue (proposed by the department or college)	A	A	A	A				A	A	A		A									
17.	Degree – Discontinue (proposed by the Provost)	See below.																				
18.	Any change to a graduate degree program	A	A	A	A				A	--	A		A									

COUNCIL ³										
	Provost-Proposed Change	Provost	Department	Dean	TEC	UUAC	Graduate	Faculty	President	Board of Trustees
1.	Major/Graduate Program – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I
2.	Minor – Discontinue (proposed by the Provost)	A	R	R	A			--	A	--
3.	Degree – Discontinue (proposed by the Provost)	A	R	R	A			A	A	I

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COUNCIL ³										
	Change to the Catalog Information	Dept./School	College Academic	Deans	UGEC	UUAC	GRAD	Provost	Faculty	President
1.	General requirements for graduation including course requirements that are common to all majors for all degrees ⁷	--	--	--	A			A	A	A
2.	Admission requirements	--	--	--	A			A	A	A
3.	Policies governing academic probation and suspension	--	--	--	A			A	A	A
4.	Requirements for graduating with honors	--	--	--	A			A	A	A

¹ Councils may request additional information about "Information" items. These items are approved as "Consent Agenda."

² The Dean and Department should respond to the Provost's recommendation to close a program in writing. Advise & Respond (R) requires that the voting body should receive the written responses at least one week prior to the vote.

³ All courses that meet University Requirements for general education must go through UGEC. Courses or degrees offered only to students seeking teacher certification must go through the Teacher Education Council. All undergraduate changes must go before the UUAC. All graduate degree plan changes must go through the Graduate Council.

⁴ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

⁵ Program or course changes that apply to any major that includes Teacher Certification will be reviewed by the college, the Teacher Education Council (TEC), and then the UUAC.

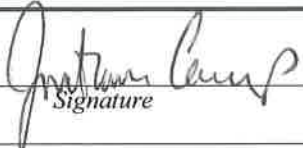
⁶ Courses that satisfy ACU's University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and "not narrowly focus on those skills, techniques, and procedures specific to a particular occupation or profession" (SACS 2.7.3). Departments may request exceptions to the first three criteria.

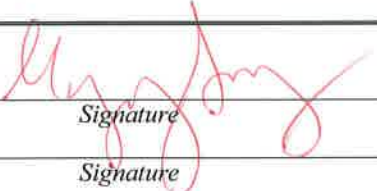
⁷ The UUAC approved the clarification that "general requirements for graduation" means the enumerated items in the "General Requirements for Bachelor's Degrees" section of the catalog.

Revised 8-26-19

Curriculum/Catalog Changes Signature Page

Department/School Chair(s)	
 Signature	09/10/2019 Approval date
_____ Signature	_____ Approval date

College Academic Council(s)	
 Signature	11-15-19 Approval date
_____ Signature	_____ Approval date

Dean(s)	
 Signature	12/5/19 Approval date
_____ Signature	_____ Approval date

Teacher Education Council	
_____ Chair's signature	_____ Approval date

General Education Council	
_____ Chair's signature	_____ Approval date

Undergraduate Academic Council	
_____ Chair's signature	_____ Approval date

Graduate Council	
_____ Chair's signature	_____ Approval date

Provost	
_____ Signature	_____ Approval date

Faculty	
_____ Chair of faculty senate	_____ Approval date

President	
_____ Signature	_____ Approval date

AENV 130

Course description:

A study of environmental and technological sciences including natural resources and the impact of modern technology on the human environment. May be used to satisfy Science University Requirements. This course is for non-science majors.

Old outcomes:

	Course Outcome
1.	Gain experience in analyzing and interpreting data in environmental science as presented in tables and figures during lecture or in the textbook.
2.	Write a position paper that will require them to read and interpret scientific literature and evaluate conclusions drawn from the data therein to support their position.
3.	Evaluate scientific explanations of environmental phenomena in relationship to linkages with ethical, economic, historical, or technological understandings.
4.	Integrate environmental science concepts related to energy, biodiversity, population, pollution, and other similar topics into their understandings of impacts on people and the Earth.

Revised outcomes:

	Course Outcome	Measurement Instrument
1.	Describe what is science and explain its distinctive characteristics.	Exams Homework assignments
2.	Explain the concepts of environmental science and sustainability.	Exams Homework assignments Writing assignments
3.	Explain the basic components of a number of different environmental issues.	Exams Writing assignments
4.	Describe how technological advances have both contributed to and helped to mitigate or resolve environmental problems.	Writing assignments

Spring 2020 ENVIRONMENTAL and TECHNOLOGICAL SCIENCE (AENV 130, 3 credit hours)

Class time & place: TR 9:30-10:50, Onstead Science Center, room 265

Text: J. Withgott & M. Laposata. Essential Environment: The Science Behind the Stories. 6th edition Pearson. 2019. You will also need the access code for Masteringenvironmentalscience .

Your course materials may be accessed digitally through your Canvas account either on or before the first day of class. Although an optional print copy of the book may be available at The Campus Store, NO other purchase is necessary. Your course material charge is included in your student bill and guarantees the lowest cost available for your required materials.

To enhance your learning experience and provide affordable access to the right course material, this course is part of an inclusive access model called First Day™. You can easily access the required materials for this course at a discounted price, and benefit from single sign-on access with no codes required in Canvas. ACU will bill you at the discounted price as a course charge for this course.

It is NOT recommended that you Opt-Out, as these materials are required to complete the course. You can choose to Opt-Out on the first day of class, but you will be responsible for purchasing your course materials at the full retail price and access to your materials may be suspended.

For more information and FAQs go to customercare.bncollege.com.

Course Pre-requisite: None

Instructor: Dr. James Carpenter
Office: Onstead Science Center 145A
Phone: 674-2277
Office Hrs: MWF 10-11:00, 12-2. other times by appointment
email: jac16d@acu.edu

ACU Mission Statement

The mission of ACU is to educate students for Christian service and leadership throughout the world.

College of Arts and Sciences Mission

To educate students for worldwide Christian service and leadership through programs of study and other learning experiences that blend a liberal arts education with professional and career education.

Agricultural & Environmental Sciences Mission Statement

To educate students for Christian stewardship of sustainable agricultural and environmental systems throughout the world.

Course Description

A study of environmental and technological sciences including natural resources and the impact of modern technology on the human environment. May be used to satisfy University Requirements.

Christian Perspective

“God blessed them and said to them, ‘be fruitful and increase in number fill the earth and subdue it. Rule over the fish of the sea and the birds of the air and over every living creature that moves on the ground.’ Gens 1:28. What do these words mean? Are they a license or a responsibility? What should our role in creation be? In this course we examine issues caused by humans that impact all of creation. What should the Christian ethic be concerning these issues? We all have an ethical stance, whether we recognize it or not, and we will be digging into the different ethical positions. In order to better prepare us for this discussion, we will also spend time learning about how the creation works, and how we have impacted it.

Course Format

Class meets for 80 minutes, 2 times per week. Format in class will be a mixture of traditional lecture, multimedia presentations, discussion, and class activities.

Course Learning Objectives

	Course Outcome	Measurement Instrument
1	Describe what science is and explain its distinctive characteristics.	Exams Homework assignments
2	Explain the concepts of environmental science and sustainability.	Exams Homework assignments Writing assignments
3	Explain the basic components of a number of different environmental issues.	Exams Writing assignments
4	Describe how technological advances have both contributed to and helped to mitigate or resolve environmental problems.	Writing assignments

Other Learning Outcomes: Several learning outcomes and transferable skills are incorporated into this course. By the end of the course, students will have improved skills in:

Critical thinking through reading and discussion of principle concepts of the course
Communication through writing and oral presentation
Collaboration through cooperation in group projects

Assessment and Grading

Lecture

4 exams (50 points each)	200 pts
1 cumulative final exam (100 points)	100 pts
10 quizzes (10 points each)	100 pts
Individual and Group Activities	100 pts
Assignments in Masteringenvironmentalscience	150 pts
Group Project (plastics)	100 pts
Participation	50 pts

Total = 800 pts

Assignments received late will be assessed a penalty, the severity of which will depend on the degree to which the assignment is late. Typically, 10% of the total possible grade will be deducted for each day the assignment is late (a 10 pt quiz would be docked 1 pt per day).

Makeups: It is the student's responsibility to make up all missed work. Any make-up work must be completed **within one week of the original due date**. Make up exams will be similar to the original in content and format, but will have no extra credit component. Exams, or in-class work missed due to an unexcused absence cannot be made up.

	<u>Percentage</u>	<u>Points</u>	<u>Letter Grade</u>
Grading Scale:	90.0-100	720+	A
	80.0-89.9	640-719	B
	70.0- 79.9	560-639	C
	60.0-69.9	480-559	D
	0-59.9	<480	F

Exams and Quizzes: Exams will consist of a mixture of multiple choice, true/false, matching, and short answer questions. Each exam is worth 50 points. The final exam is cumulative and is worth 100 points. Makeup exams are given (within 1 week of actual exam date) at the discretion of the instructor only when accompanied by a valid written note. Quizzes will be given approximately once/week, usually when there is no test. Quiz format will be similar to that of the exams. Quizzes and exams will be administered in Canvas. Quizzes will be done outside of class. Exams will be done in class using the lockdown browser. On exam days, the first 30 minutes of class will be used for the exam. After the exam, we will use the remaining 20 minutes of class time to introduce new material.

Extra Credit: There may be random extra credit quizzes throughout the semester. These quizzes will be 5 points or less each. In addition, each exam will include an extra credit short answer question. These will be the only opportunities for extra credit in this course.

University Policies

ADA compliance: Abilene Christian University is dedicated to removing barriers and opening access for students with disabilities in compliance with ADA and Section 504 of the Rehabilitation Act. The Alpha Scholars Program facilitates disability accommodations in cooperation with instructors. In order to receive accommodations, you must be registered with Alpha Scholars Program, and you must complete a specific request for each class in which you need accommodations. If you have a documented disability and wish to discuss academic accommodations, please call 325-674-2667.

Academic integrity: Academic integrity is defined as academic work completed as assigned for each class by the individual or group responsible for the work. Violations of academic integrity and other forms of cheating involve the intention to deceive, mislead, or misrepresent and therefore, are a form of lying. Such actions are contrary to behavioral norms that flow from the nature of God. Academic misconduct includes, but is not limited to, the following: 1) Failure to give credit to sources used in a work in an attempt to present the work as one's own, 2) Submission of papers or projects obtained from another source (e.g., research service or club paper file) as one's own, and 3) Falsifying information orally or in writing. Academic misconduct may result in, but is not limited to, a zero on the assignment and/or an F in the course. Additionally, the department chair, Dean of your school, and the Dean of Student Life will be notified. See the full university policy, including how to appeal a decision, by following [this link](#).

Harassment policy: As a Christian community, Abilene Christian University has committed itself, unequivocally, to ensuring a working and learning environment in which the dignity of every individual is respected. Harassment is defined as unwelcome behavior or conduct based on sex, religion, race, age, color, national origin, veteran's status, disability, or any other characteristic protected by law when (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, education, or participation in University programs or activities, (2) submission to, or rejection of, such conduct by an individual is used as the basis for a decision affecting an individual's employment, education, or participation in University programs or activities, or (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive environment for work, education, or participation in a University program or activity. See the full university policy by following [this link](#).

FERPA: “The Family Educational Rights and Privacy Act” affords the student certain rights with respect to student records.” Refer to the ACU course catalog for a more thorough discussion (p. 9 in the 2015-2016 catalog).

Course Policies

Professionalism: You should conduct yourself in a professional manner, similar to what will be expected of you in the workplace.

Class Attendance and Conduct

Attendance: Attendance of class is expected. It is the responsibility of the student to make sure that any missed work is made up, and to stay current with the covered material.

Participation and Tardiness: Discussion is an integral part of this class. Worthwhile discussion can only happen if people are prepared. If students have done the requested readings before class, this shouldn't be a problem. But you need to be willing to contribute to the discussions. Your participation grade will be based on your level of interactions in the class. Being late to class is unprofessional and disruptive. Chronic or severe tardiness (e.g. being more than 10 minutes late), as well as unexcused absences, will result in loss of participation points.

Conduct: Students are expected to conduct themselves in accordance with the standards given in the Student Handbook. I shall treat you with the same level of respect I expect from you. No electronic devices shall be turned on during class, except for those specifically being used for the class. The textbook is **required** for the course, and **readings** should be completed before the material is covered in class.

Technology Use:

Inappropriate use of any electronic devices in a learning environment is disruptive and disrespectful of others. Unless the devices are approved as accommodations for persons with disabilities or have been designated for use in the classroom by the instructor, all such devices should be turned off and put away during class. Students violating this policy may be asked to leave the classroom immediately.

e-mail. I regularly check and answer e-mail (which is the best way to contact me with questions, comments, and concerns). Consider e-mails to be ‘memos’ and treat them as you would any communication in a professional, workplace environment. Texting shorthand and abbreviations are not appropriate for e-mails. Confirmation of e-mail replies is expected, professional, and is the standard in professional workplace environments.

Env & Tech Science Tentative Class Schedule Spring 2020

<u>Dates</u>	<u>Week</u>	<u>Subject</u>	<u>Chapter(s)</u>	<u>Module</u>
1/14 - 1/16	1	Introduction/Science & Env. Science	1-2	Science/Ecology
		Ecology Basics	2-3	Science/Ecology
Fri 1/17		Last day to add a class		
Mon 1/20		MLKJ Day, Campus closed		
1/21 - 1/23	2	Quiz 1 More on Ecology	4	Science/Ecology
1/28 - 1/30	3	Quiz 2 Conservation Biology	8	Science/Ecology
Tues 2/4		Exam 1		
2/4 - 2/6	4	Population Growth	6	Human Ecology
2/11 - 2/13	5	Quiz 3 Economics & Sustainable Development	5	Human Ecology
2/18 - 2/20	6	Quiz 4 Agriculture	7	Food/Water
2/25 - 2/27	7	Quiz 5 Agriculture	7	Food/Water
Thurs 2/27		Exam 2		
3/3 - 3/5	8	Water	12	Food/Water
3/9 - 3/13		SPRING BREAK, NO CLASSES		
3/17 - 3/19	9	Quiz 6 Health & Toxicology	10	Health: Ours & Planet's
3/24 - 3/26	10	Quiz 7 Health & Toxicology	10	Health: Ours & Planet's
Thurs 3/26		Exam 3		
3/31 - 4/2	11	Air Pollution	13	Health: Ours & Planet's
4/7 - 4/9	12	Quiz 8 Climate Change	14	Health: Ours & Planet's
Fri 4/10		GOOD FRIDAY, NO CLASSES		
Mon 4/13		Last day to withdraw		
Tues 4/14		Exam 4		
4/14 - 4/16	13	Nonrenewable Energy	15	Energy
4/21 - 4/23		Quiz 9 Nonrenewable & Renewable Energy	15/16	Energy
4/28 - 4/30	15	Quiz 10 Renewable Energy	16	Energy
Mon 5/4		Dead Day		
Fri 5/8		COMPREHENSIVE FINAL EXAM (10:00-11:45)		

*Be sure to check the ACU exam schedule webpage: <http://www.acu.edu/campusoffices/registrar/finalexams/scheduleC.html>, since the date and time may be changed by the registrar during the semester.