

Approval Chart for Curriculum Changes

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

Course Number ENVR 341 or Degree Plan(s) _____
 State the requested change and reason. A memo may be attached if more space is necessary.

Current course description: A study of the use, conservation, and management of water resources within West Texas and the southwest. Discusses demand for fresh water and the limited water supplies in arid environments. Laboratory graded and credited with course. Prerequisite: Junior standing. Course fee.

New course description: A study of the sustainable use, conservation, and management of water resources with emphasis on west Texas. Discusses societal demand for fresh water, water law, water quality analysis, and water management plans. Laboratory graded and credited with course. Prerequisite: Junior standing. Course fee.

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

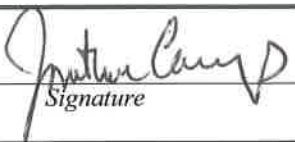
⁶ Courses that satisfy ACU’s University Requirements (General Education) will normally have lower-level numbering, be free of prerequisites and co-requisites, appeal to more than one or two majors, and “not narrowly focus on those skills, techniques, and procedures specific to a particular occupation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

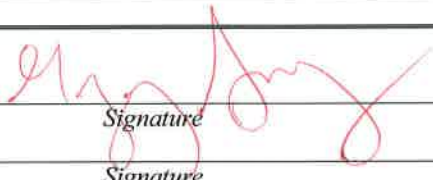
⁷ The UUAC approved the clarification that “general requirements for graduation” means the enumerated items in the “General Requirements for Bachelor’s Degrees” section of the catalog.

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

ENVR 341

Old outcomes:

	Course Outcome	Measurement Instrument
1.	Discuss ecological concepts related to water resource management using terminology specific to hydrological cycles.	Exams Class readings and discussion
2.	Analyze ecosystems and explain the interrelationships of the components of those ecosystems as to effects on water resources.	Lab exercises
3.	Analyze human land use practices and their effects on water resources.	Lab exercises Readings
4.	Discuss overland flow of water and its impact on rivers, lakes, and land.	Class readings and discussion
5.	Analyze watersheds and watershed management in relation to water conservation.	Lab exercises
6.	Discuss water laws (both surface and underground).	Readings
7.	Conduct water quality analysis.	Lab exercises
8.	Prepare water resource management plans for specific areas in West Texas.	Class activities Lab exercises

ENVR 341

Revised outcomes:

	Course Outcome	Measurement Instrument
1.	Explain the physical and ecological properties of water, including the hydrological cycle.	Exams
2.	Analyze watersheds and the roles and interconnectedness of surface and groundwater.	Lab assignments
3.	Explain water laws and the impact of Texas water law.	Exams
4.	Summarize the current major issues in global water use.	Writing assignment
5.	Conduct water quality analyses.	Lab assignments
6.	Analyze current water news.	Writing assignment Project

Fall 2019

WATER RESOURCES (ENVR 341, 3 credit hours)

Class time & place: MW 12:00pm-12:50pm, Onstead Science Center 233

Lab time & place: F 12:00pm-2:50pm, McDaniel House

Text: Andrew A. Dzurik, Tara S. Kulkarni, & Bonnie K. Boland. Water Resources Planning: Fundamentals for an Integrated Framework. 4th edition. Rowman & Littlefield. 2019. ISBN: 978-1442253995

There is no lab text.

Course Pre-requisite: Junior standing

Instructor: Dr. Kendra Jernigan, PhD

Office: Onstead Science Center 145C

Phone: 325-674-2101

Office Hrs: Monday: 8am-10am & 1pm-2pm

Tuesday: 8am-9am

Wednesday: 8am-10am

Thursday: None

Friday: 9am-10am

*or other times by appointment via Canvas message. Priority use of Canvas messaging over email, thank you! (Email: kendra.jernigan@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 the sustainable use, conservation, and management of water resources with emphasis on west Texas. Discusses societal demand for fresh water, water law, water quality analysis, and water management plans. Laboratory graded and credited with course. Prerequisite: Junior standing. Course fee.

Christian Perspective

Water is arguably the most important natural resource on the planet. Good stewardship of this resource requires balancing needs of the environment and people, even between different groups of people. Achieving such balance is difficult and contentious. We will examine how Christian values influence decision-making in water management.

Course Format

Class meets for 50 minutes, 2-3 times per week. Format in class will be a mixture of traditional lecture, multimedia presentations, and discussion. A significant amount of time outside of class will be required for readings and discussion preparation. Lab time will be used for more direct, hands-on learning. Labs will include field trips, guest speakers, and student participation in projects at the McDaniel House and Rhoden Field Laboratory.

Course Goal and Specific Learning Objectives

By the end of the course, students will be able to:

	Course Outcome	Measurement Instrument
1.	Explain the physical and ecological properties of water, including the hydrological cycle.	Exams
2.	Analyze watersheds and the roles and interconnectedness of surface and groundwater.	Lab assignments
3.	Explain water laws and the impact of Texas water law.	Exams
4.	Summarize the current major issues in global water use.	Writing assignment
5.	Conduct water quality analyses.	Lab assignments
6.	Analyze current water news.	Writing assignment Project

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:

the collection and analysis of data in labs

reading and discussion of principle concepts of the course

Communication through:

critical reviews and summaries of relevant articles

Assessment and Grading

Lecture

4 major exams (100 points each)	400 pts
1 cumulative final exam (150 points)	150 pts
4 short writing assignments (abstracts/reading comprehension/ technical writing; 50 points each)	200 pts
Water Project & Presentation (100 points total)	100 pts

Lab

Lab write-ups	100 pts
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Both

50 activity points based on class and lab participation	50 pts
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Total = 1000 pts

Grading Scale:	900-1000	A
	800-899	B
	700-799	C
	600-699	D
	0-599	F

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 50 pt report would be docked 5 pts per day).

Makeups: It is the student's responsibility to make up all missed work. Due to setup time and space considerations, lab make-ups are sometimes difficult to arrange. 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. Labs, exams, or in-class work missed due to an unexcused absence cannot be made up.

Exams: Exams will consist of a mixture of multiple choice, true/false, and short answer questions. Each exam is worth 100 points. The final exam is cumulative and is worth 150 points. Makeup exams are given at the discretion of the instructor only when accompanied by a valid written note (within 1 week of actual exam date).

Extra Credit: There may be random extra credit points available throughout the semester. 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, at <https://www.acu.edu/content/dam/community/documents/cas/cas-academic-integrity.pdf>.

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 at <https://www.acu.edu/titleix>.

Title IX: As a professor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as a professor. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep the information you share private to the greatest extent possible. When I am not able to keep your information confidential, I will only share it with responsible administrators on campus who can provide you with services and resources. I am required to share with the Title IX Coordinator information regarding sexual misconduct or harassment, dating or domestic violence or stalking that you report to me. If you would prefer to share information in a confidential setting, I encourage you to speak with someone in the [ACU Counseling Center](#). All of your options are available for review by clicking on the link to ACU's [policy](#).

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 should not 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) will result in loss of participation points.

Conduct: Students are expected to conduct themselves in accordance with the standards given in the Student Handbook (see the following). 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 Canvas messenger or email (which is the best way to contact me with questions, comments, and concerns). Consider emails to be 'memos' and treat them as you would any communication in a professional, workplace environment. Texting shorthand and abbreviations are not appropriate for emails. Confirmation of email replies is expected, professional, and is the standard in professional workplace environments.

Water Resources Tentative Class Schedule Fall 2019

* This schedule is subject to change – I will keep you updated if and what will change!

Date	Week	Exams	Subject	Lab	Chapter(s)
08/26	1		Class Introduction, Introduction: The Watery Planet		1
8/30 – Last day to add/drop a class without penalty					
09/02	2		Planning Process		2
09/09	3		Hydrologic Fundamentals		3
09/16	4	EXAM 1, Wednesday 9/18	Hydrologic Fundamentals		3
9/15 to 9/18 – ACU Summit; No class on Monday (9/16) due to AES Summit Missions Luncheon					
09/23	5		Water Use & Supply		4
09/30	6		Water Law		5
10/07	7	EXAM 2, Wednesday 10/10	Water Law		5
10/14	8		Federal Agencies & Legislation; State & Intergovernmental Agencies		6 & 7
10/21	9		Water Quality	NO LAB	8
10/25 – Fall Break (No classes)					
10/28	10	EXAM 3, Wednesday 10/30	Economic Analysis		9
11/04	11		Floodplain Management		10
11/11	12		Stormwater Planning & Management		11
11/10 to 11/13 – Dr. Jernigan attending ASA-CSSA-SSSA meetings					
11/15 – Last day to withdraw from any course					
11/18	13		Models in Water Resource Planning; Other Planning Issues		12 & 13
11/25	14	EXAM 4, Monday 11/25		NO LAB	
11/27-11/29 – Thanksgiving Break (No classes)					
12/02	15		Future Directions	Water project presentations	14
Dead Day (12/09).					
<u>COMPREHENSIVE FINAL EXAM – Wednesday (12/11) 12pm – 1:45pm</u>					
*ACU policy is that NO final is to be taken early.					
*Be sure to <u>double check the ACU exam schedule web page here</u> , since the date and time may be changed by the registrar during the semester:					