

COURSE IMPLEMENTATION DATE: January 1995
 COURSE REVISED IMPLEMENTATION DATE: January 2006
 COURSE TO BE REVIEWED: January 2010
 (Four years after implementation date) (MONTH YEAR)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
 Shaded headings are subject to change at the discretion of the department and the material will vary
 - see course syllabus available from instructor

FACULTY/DEPARTMENT:	Arts and Applied Arts/Geography	
Geography 302	na	4
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	FLUVIAL GEOMORPHOLOGY	
	COURSE DESCRIPTIVE TITLE	

CALENDAR DESCRIPTION:

This course provides a comprehensive review of processes and landforms responsible for shaping the fluvial environment. Emphasis is placed on understanding the theoretical basis of fluvial geomorphology and the identification and formative processes of fluvial landforms. Participation in field trips scheduled outside of regular class times is required.

PREREQUISITES: **Geog 202**
 COREQUISITES: **none**

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: Geog 302	na
(Course #)	(Department/Program)
(b) Cannot take: If 302 taken prior to 2005 for further credit.	na
(Course #)	(Department/Program)

TOTAL HOURS PER TERM:	75	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:		LENGTH OF COURSE: _____
Lectures: 35 Hrs		HOURS PER DAY: _____
Seminar: _____ Hrs		
Laboratory: 25 Hrs		
Field Experience: 15 Hrs		
Student Directed Learning: _____ Hrs		
Other (Specify): _____ Hrs		

MAXIMUM ENROLLMENT:	25
EXPECTED FREQUENCY OF COURSE OFFERINGS:	Once per academic year
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Chairperson: _____
 Claire Beaney/Dr. Sandy Vanderburgh Raymond Welsh (*Curriculum Committee*)

Department Head: _____ Dean: _____
 Dr. Sandy Vanderburgh Dr. Virginia Cooke

PAC Approval in Principle Date: _____ PAC Final Approval Date: January 28, 2005

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

1. Students will be able to identify and understand the theoretical basis for fluvial geomorphology.
2. Students will develop field skills in fluvial geomorphology in the Pacific Northwest that are transferable to other areas of the earth sciences.
3. Students will develop practical skills in landform identification and mapping, problem solving, data presentation and fieldwork commonly used by professional geoscientists.

METHODS:

Instructional methods include lectures, laboratory sessions and field trips.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check:) Yes No

METHODS OF OBTAINING PLAR:

Challenge exams and portfolio assessment.

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Knighton, D. 1998. Fluvial Forms and Processes: A New Perspective. Oxford. OR
Robert, A. 2003. River Processes: An Introduction to Fluvial Dynamics. Oxford. OR
Bridge, JS. 2003. Rivers and Floodplains: Forms, Processes and Sedimentary Record. Blackwell.

Additional resources will be placed in the library as required.

SUPPLIES / MATERIALS:

There will be a fee for field trip transportation and accomodation costs.

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Labs (8-10)	30%
Project/field trip report	20%
Exams (midterm and final)	50%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

1. History of Fluvial Geomorphology
2. Drainage Basins and Stream Networks
3. Open Channel Flow - basic physical principles
4. Hydraulic Geometry
5. Sediment Erosion
6. Sediment Transport
7. Sediment Deposition
8. Bedforms and Sedimentary Structures
9. Channel Patterns - Meandering, Braided, Straight Channels etc
10. Applied Fluvial Geomorphology