



UNIVERSITY OF THE PACIFIC

School of Engineering and Computer Science

American River College Articulation Sheet

Pacific Requirement	fulfilled by	American River College *
Mathematics		
MATH 51	Calculus I	MATH 400
MATH 53	Calculus II	MATH 401
MATH 55	Calculus III	MATH 402
MATH 57	Differential Equations	MATH 420
Basic Sciences		
BIOL 51	Principles of Biology I (1)	BIOL 400
BIOL 61	Principles of Biology II (1)	BIOL 410 or 420
CHEM 25	General Chemistry I	CHEM 400
CHEM 27	General Chemistry II (2)	CHEM 401
	Basic Science Elective (3)	
PHYS 53 -55	Principles of Physics	PHYS 410, 421, 431
Engineering Science		
ENGR 20	Engineering Mechanics I	ENGR 420
ENGR 45	Material Science (4)	ENGR 413
ECPE 41	Electrical Circuits/Science (5)	ENGR 401
ECPE 41L	Electrical Science Lab (5)	ENGR 401
CIVL 22	Surveying (6)	ENGR 310
ENGR 5	Introduction to Engineering	ENGR 300
ENGR 15	Engineering Graphics (4)	ENGR 312
(Varies)	Computer Programming (7)	CISP 400, 340
MECH 100	Manufacturing Processes (8)	ENGR 320
ENGR 120	Engineering Mechanics II	ENGR 430

General Education

Pacific will accept any Community College Transfer General Education program as satisfying our own, with at most one additional class being required. (See next page.)

Students who present a transcript showing satisfactory completion of the above listed core requirements will be able to enroll with full junior standing. Completion of the Bachelors degree can be done in two additional years plus twelve months of Cooperative Education. Pacific does not require a minimum number of completed units for community college students to transfer to University of the Pacific.

- (1) **REQUIRED** only for Bioengineering.
- (2) **REQUIRED** only for Civil Students with environmental emphasis and Bioengineering. Elective for CpE, EE, ME, and other CE majors.
- (3) **NOT REQUIRED** for Bioengineering and Engineering Physics majors.
- (4) **NOT REQUIRED** for Bioengineering, Electrical, Computer and Engineering Physics majors.
- (5) If the student has not completed this requirement, the student should contact the School of Engineering and Computer Science for summer school information.
- (6) **REQUIRED** for Civil majors.
- (7) Electrical and Computer Engineering majors **REQUIRE** C++ programming.
- (8) **REQUIRED** for Mechanical majors.

**School of Engineering and Computer Science
University of the Pacific**

Students wishing to complete the entire General Education requirements at the School of Engineering and Computer Science at the University of the Pacific should:

- 1. Take a minimum of three social sciences and three humanity classes totaling a minimum of 18 semester units.**
- 2. One class should be taken from each of the three different sub-groups in each discipline (See list of typical courses below).**

Social Sciences

Individual & Interpersonal Behavior

Communicative Disorders: An Overview
Intro. to Interpersonal Communication
Intro. to Microeconomics
Literature & Psychology
Intro. to Human Development
Child Development
Intro. to Psychology
Sex Roles & Sexuality
Psychoactive Drugs & Behavior
Abnormal Psychology
Adolescence & Young Adulthood
Criminology
Human Sexuality Sports in America

International or Intercultural Studies

(Any non-U.S. History classes).
(Any non-U.S. Political Science classes).
Cultural Anthropology
Intro. to Music of the World's People
Women Across Culture

Society and Culture in the U.S.

Intro. to Mass Communication
Economic Principles and Problems
Intro. to Macroeconomics Theory & Policy
U.S. History I & II
The Civil War Era
Women in U.S. History
African-American History
American Democracy
U.S. National Government
Mass Media & Political Participation
Intro. to Sociology
Social Problems & Policy

Recreation & American Society
Music, Entertainment in U.S. Society
The Mexican American in Contemporary Society

Humanities

Literature, Letters & Language

(Any foreign language classes)
(Any foreign literature classes)
Public Speaking
Intro to Argumentation

Fundamental Human Concerns

History of Western Civilization I & II
Intro. to Philosophy
Fundamentals of Ethics
History of Modern Philosophy
Key Ideas of the Old Testament
Life and Teaching of Jesus
Nature of the Christian Faith
Religion and American Culture
Intro. to Religion

Practice & Perspective in the Visual & Performing Arts

Visual Arts Exploration
Survey of Western Art to 1400
Survey of Western Art after 1400
History of the Theater
Aesthetics of Film
Religion & Cinema
Music Appreciation
Performing Ensembles
Opera Literature

Engineering Degrees Available

Bioengineering (BE)
Civil Engineering (CE)
Computer Engineering (CpE)
Electrical Engineering (EE)
Engineering Management (EMgt)
Engineering Physics (Eph)
Mechanical Engineering (ME)