



UNIVERSITY OF THE PACIFIC

School of Engineering and Computer Science

Cabrillo College Articulation Sheet

| Pacific Requirement | fulfilled by | Cabrillo College* |
|----------------------------------|---------------------------------|----------------------------------|
| Mathematics | | |
| MATH 51 | Calculus I | MATH 5A |
| MATH 53 | Calculus II | MATH 5B |
| MATH 55 | Calculus III | MATH 5C |
| MATH 57 | Differential Equations | MATH 7 |
| Basic Sciences | | |
| BIOL 51 | Principles of Biology I (7) | To be determined |
| BIOL 61 | Principles of Biology II (7) | To be determined |
| CHEM 25 & 27 | General Chemistry (8) | CHEM 1A & TBD |
| | Basic Science Elective (4) | (Many options available) |
| PHYS 53-55 | Principles of Physics | PHYS 4A-4B-4C |
| Engineering Science | | |
| ENGR 20 | Engineering Mechanics I | ENGR 35 |
| ENGR 45 | Material Science (1) | ENGR 45 |
| ECPE 41 | Electrical Circuits/Science (2) | ENGR 15 |
| ECPE 41L | Electrical Science Lab (2) | ENGR 15 |
| CIVL 22 | Surveying (3) | ENGR 1A |
| Other Engineering Courses | | |
| ENGR 5 | Introduction to Engineering | ENGR 5 |
| ENGR 15 | Engineering Graphics (1) | ENGR 25 |
| (Varies) | Computer Programming (6) | MATH 14; or CIS 11, 12, 19 OR 30 |
| MECH 100 | Manufacturing Processes (5) | No comparable course available |

General Education

We at 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) **NOT REQUIRED** for Bioengineering, Electrical, Computer and Engineering Physics majors.
- (2) If the student has not completed this requirement, the student should contact the School of Engineering and Computer Science for summer school information.
- (3) **REQUIRED** only for Civil majors.
- (4) **NOT REQUIRED** for Engineering Physics or Bioengineering majors. Most Bio., Chem., Geology, and Physics classes acceptable.
- (5) **REQUIRED** only for Mechanical majors.
- (6) C++ programming **required** for Electrical and Computer majors.
- (7) **REQUIRED** only for Bioengineering.
- (8) **REQUIRED** only for Civil students with environmental emphasis and Bioengineering students. Elective for CpE, EE, ME, and other CE 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

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
Sports in America
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 Survey of Western Art to 1400
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 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)