

*College of Engineering &
Computer Science*



C A L S T A T E
FULLERTON

College Advising Office

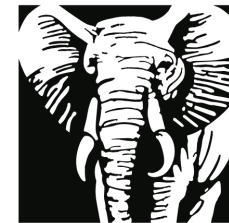
*Associate Dean
Dr. Dorota Huizinga
(714) 278-3362*

*Assistant Dean
Student Affairs
Tonia Terresh
(714) 278-2887*

*Please see ASSIST.org for your
college articulation*

*California State University, Fullerton
Major Preparation*

College of Engineering & Computer Science



C A L S T A T E
FULLERTON

Academic Advisement Center

www.fullerton.edu/aac

UH-123

(714) 278-3606

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2007 - 2008

The College of Engineering and Computer Science has Departments of Civil and Environmental Engineering, Electrical Engineering, and Mechanical Engineering which offer programs leading to the degree of Bachelor of Science and Master of Science in these disciplines; the three Bachelor of Science degree programs in Civil, Electrical, and Mechanical Engineering are nationally accredited by ABET, the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. The college also offers a new program in Computer Engineering which has been designed to meet all ABET criteria for accreditation and a Master of Science in Software Engineering.

CSUF is located in an industrial and highly technological region of Southern California. Drawing upon its professional expertise in many areas of engineering, the Engineering programs serve as distinctive resources and catalysts for partnership with public and private organizations in our region. Our nationally accredited undergraduate engineering programs offer a broad education in basic science, mathematics, and the fundamental principles and practices of engineering. These are coupled with studies in social sciences, arts, humanities, and behavioral sciences due to their importance for an engineer's professional career.

Majors:

- ◆ Computer Engineering B.S.
- ◆ Computer Science B.S.
- ◆ Civil Engineering B.S.
 - ◆ Civil Engineering
 - ◆ Emphasis in Architectural Engineering
- ◆ Electrical Engineering B.S.
- ◆ Engineering B.S.
- ◆ Mechanical Engineering B.S.
 - ◆ Mechanical Engineering
 - ◆ Emphasis in Manufacturing Engineering

Lower Division Preparation for B.S. in Computer Engineering

Computer Engineering

MATH 125: Precalculus (5 units) OR

Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4 units)

MATH 150B: Calculus (4 units)

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Lower Division Preparation for B.S. in Mechanical Engineering

Mechanical Engineering

MATH 125: Precalculus (5 units) OR

Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4 units)

MATH 150B: Calculus (4 units)

MATH 250A: Multivariate Calculus (4 units)

MATH 250B: Introduction to Linear Algebra & Differential Equations (4)

CHEM 120A: General Chemistry (5 units)

PHYSICS 115: Introductory Physics (4 units) OR One year of high school physics

PHYSICS 225, 225L: Fundamental Physics: Mechanics & Lab (4 units)

PHYSICS 226, 226L: Fundamental Physics: Electricity & Magnetism & Lab

PHYSICS 227: Fundamental Physics: Waves, Optics, & Modern Physics (1)

EGME 102: Graphical Communications (3 units)

EGCE 201: Statics (3 units)

EGEE 203: Electric Circuits (3 units)

EGME 205: Digital Computation (3 units)

Manufacturing Engineering Emphasis

MATH 125: Precalculus (5 units) OR Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4 units)

MATH 150B: Calculus (4 units)

MATH 250A: Multivariate Calculus (4 units)

MATH 250B: Introduction to Linear Algebra & Differential Equations (4)

CHEM 120A: General Chemistry (5 units)

PHYSICS 115: Introductory Physics (4 units) OR One year of high school physics

PHYSICS 225, 225L: Fundamental Physics: Mechanics & Lab (4 units)

PHYSICS 226, 226L: Fundamental Physics: Electricity & Magnetism & Lab

PHYSICS 227: Fundamental Physics: Waves, Optics, & Modern Physics (1)

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College of Engineering & Computer Science

Electrical Engineering Continued

PHYSICS 227, 227L: Fundamental Physics: Waves, Optics, & Modern Physics & Lab (4)

EGME 102: Graphical Communications (3 units)

EGCE 201: Statics (3 units)

EGEE 203: Electric Circuits (3 units)

EGGN 205: Digital Computations (3 units)

Lower Division Preparation for B.A. in Engineering

Engineering

MATH 125: Precalculus (5 units) OR Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4 units)

MATH 150B: Calculus (4 units)

MATH 250A: Multivariate Calculus (4 units)

MATH 250B: Introduction to Linear Algebra & Differential Equations (4 units)

CHEM 120A: General Chemistry (5 units)

PHYSICS 115: Introductory Physics (4 units) OR

One year of high school physics

PHYSICS 225, 225L: Fundamental Physics: Mechanics & Lab (4 units)

PHYSICS 226, 226L: Fundamental Physics: Electricity & Magnetism & Lab (4)

PHYSICS 227: Fundamental Physics: Waves, Optics, & Modern Physics (3 units)

OR either CHEM 125: General Chemistry for Engineers (3)

OR BIOL 101: Elements of Biology (3 units) and CHEMISTRY 301A: Organic Chemistry (3)

EGME 102: Graphical Communications (3 units)

EGCE 201: Statics (3 units)

EGEE 203: Electric Circuits (3 units)

EGGN 205: Digital Computations (3 units)

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Computer Engineering Continued

MATH 250A: Multivariate Calculus (4 units)

MATH 250B: Introduction to Linear Algebra & Differential Equations (4 units)

MATH 270A: Mathematical Structures I (3 units)

PHYSICS 115: Introductory Physics (4 units) OR

One year of high school physics

PHYSICS 225: Fundamental Physics: Mechanics (3 units)

PHYSICS 226: Fundamental Physics: Electricity & Magnetism (3)

PHYSICS 225L, 226L, 227L: Fundamental Physics: Lab (1, 1, 1 unit)

BIOL 101: Elements of Biology (3 units)

Comp Sci 131: Data Structures Concepts (3 units)

Comp Sci 231: File System Concepts (3 units)

Comp Sci 253U: Workshop in UNIX (1 unit)

Lower Division Preparation for B.S. in Computer Science

Computer Science

MATH 125: Precalculus (5 units) OR

Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4 units)

MATH 150B: Calculus (4 units)

MATH 270A: Mathematical Structures I (3 units)

MATH 270B: Mathematical Structures II (3 units)

PHYSICS 115: Introductory Physics (4 units) OR

One year of high school physics

One of the Following Combinations: (8 lower division units)

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College of Engineering & Computer Science

Computer Science Continued

PHYSICS 225: Fundamental Physics: Mechanics (3 units)

PHYSICS 226: Fundamental Physics: Electricity & Magnetism (3)

PHYSICS 225L, 226L: Fundamental Physics: Lab (1 & 1 unit) OR

CHEM 120A: General Chemistry (5 units)

CHEM 125: General Chemistry for Engineers (3 units) OR

Geological Sci 101: Physical Geological (3 units)

Geological Sci 101L: Physical Geological Lab (1 unit)

Geological Sci 201 & 201L: Earth History & Lab (4 units)

Lower Division Preparation for B.S. in Civil Engineering

Civil Engineering

MATH 125: Precalculus (5 units) OR

Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4units)

MATH 150B: Calculus (4 units)

MATH 250A: Multivariate Calculus (4 units)

MATH 250B: Introduction to Linear Algebra & Differential

Equations (4units)

BIOL 101: General Biology (3 units)

CHEM 115: Introduction to General Chemistry (4 units)

PHYSICS 225: Fundamental Physics: Mechanics (3 units)

PHYSICS 226: Fundamental Physics: Electricity & Magnetism (3)

PHYSICS 225L, 226L: Fundamental Physics: Lab (1 & 1 unit)

EGCE 201: Statics (3 units)

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Lower Division Preparation for B.S. in Civil Engineering

Architectural Engineering Emphasis

All Civil Engineering Preparation plus:

EGEE 203L: Electric Circuits Laboratory (1 unit)

OR EGCE 206: Computer-Aided Architectural & Civil
Engineering Drafting (1 unit)

EGCE 214: Engineering Surveying (2 units)

EGCE 214L: Engineering Surveying Laboratory (1 unit)

Lower Division Preparation for B.S. in Electrical Engineering

Electrical Engineering

MATH 125: Precalculus (5 units) OR

Two years of high school algebra, geometry, and trigonometry

MATH 150A: Calculus (4units)

MATH 150B: Calculus (4 units)

MATH 250A: Multivariate Calculus (4 units)

MATH 250B: Introduction to Linear Algebra & Differential

Equations (4units)

BIOL 101: General Biology (3 units)

CHEM 120A: General Chemistry (5 units)

PHYSICS 115: Introductory Physics (4 units) OR

One year of high school physics

PHYSICS 225,225L: Fundamental Physics: Mechanics & Lab (4)

PHYSICS 226,226L: Fundamental Physics: Electricity & Magnetism &
Lab (4)

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