

*College of Natural Sciences
& Mathematics*



C A L S T A T E
FULLERTON

College Advising Offices

*Office of the Dean
(714) 278-2638*

*Associate Dean
Dr. David Fromson
(714) 278-2638*

*Assistant Dean, Student Affairs
Rochelle Woods
(714) 278-4158*

*Please see ASSIST.org for your
college articulation*

*California State University, Fullerton
Major Preparation*

College of Natural Sciences & Mathematics



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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your college articulation*

2007 - 2008

College of Natural Sciences & Mathematics

The curricula of the College of Natural Sciences and Mathematics are designed to prepare students for careers in scientific, mathematical, and other technical fields; for further study and specialization in advanced graduate work; and for entry into professional schools of medicine and other health-related disciplines. The faculty of the college is actively involved not only in instruction and scholarship but also in the advisement of career and program goals. Cooperative education internship programs are available in each of the College's Departments.

The College sponsors a variety of professional programs at which students and faculty have an opportunity to meet with their counterparts.

Majors:

- ◆ *Biological Sciences B.S.*
 - ◆ Concentration in Biodiversity, Ecology, and Conservation Biology
 - ◆ Concentration in Cell and Developmental Biology
 - ◆ Concentration in Marine Biology
 - ◆ Concentration in Molecular Biology and Biotechnology
- ◆ *Biochemistry B.S.*
- ◆ *Chemistry B.S., B.A.*
- ◆ *Geology B.S.*
- ◆ *Mathematics B.A.*
 - ◆ Concentration in Applied Mathematics
 - ◆ Concentration in Probability & Statistics
 - ◆ Concentration in Pure Mathematics
 - ◆ Concentration in Teaching
- ◆ *Physics B.S.*

Please see [ASSIST.org](https://www.assist.org) for your college articulation

Lower Division Preparation for B.S. in Physics

Physics

- CHEM 120A: General Chemistry (4 units)*
- CHEM 125: General Chemistry for Engineers (4 units)*
- MATH 150A, 150B: Calculus (4 & 4 units)*
- MATH 250A: Multivariate Calculus (4 units)*
- PHYS 225, 225L: Fundamental Physics: Mechanics & Lab (3 & 1 units)*
- PHYS 226, 226L: Fundamental Physics: Electricity & Magnetism & Lab (3 & 1 units)*
- PHYS 227, 227L: Fundamental Physics: Waves, Optics & Modern Physics & Lab (3 & 1 units)*

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College of Natural Sciences & Mathematics

Lower Division Preparation for B.A. in Mathematics

All Mathematics Concentrations

MATH 150A, 150B: Calculus (4 & 4 units)

MATH 250A: Multivariate Calculus (4 units)

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

MATH 280: Strategies of Proof (3 units)

Notes:

* Students may need to work in the pre-requisites for Calculus I, which are Pre-calculus or College Algebra and Trigonometry.

* Your community college may not have a course that is equivalent to MATH 280, mathematics major transfers will take this course at CSUF in their first semester.

* Community college mathematics major transfers have varied preparation in mathematics and frequently need individual advisement. They should be encouraged to attend New Student Orientation which includes advising. If that is not possible, then transfer students should contact the CSUF Department of Mathematics (714-278-3631) to set up an individual appointment.

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Lower Division Preparation for B.S. in Biological Sciences

All Concentrations for Biological Sciences

BIOL 171: Evolution & Biodiversity (5 units)

BIOL 172: Cellular Basis of Life (5 units)

BIOL 273: Genetics & Molecular Biology (5 units)

BIOL 274: Principles of Physiology & Ecology (5 units)

CHEM 120A, 120B: General Chemistry (5 & 5 units)

PHYS 211, 211L: Elementary Physics & Lab (3 & 1 units)

PHYS 212, 212L: Elementary Physics & Lab (3 & 1 units)

MATH 130A: Short Course in Calculus (4 units) OR MATH 150A: Calculus (4)

Lower Division Preparation for B.S. in Biochemistry

Biochemistry

CHEM 120A, 120B: General Chemistry (5 & 5 units)

PHYS 211, 211L: Elementary Physics & Lab (3 & 1 units)

PHYS 212, 212L: Elementary Physics & Lab (3 & 1 units)

MATH 150A, 150B: Calculus (4 & 4 units)

BIOL 172: Cellular Basis of Life (5 units)

BIOL 273: Genetics & Molecular Biology (5 units)

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College of Natural Sciences & Mathematics

Lower Division Preparation for B.S. in Chemistry

Chemistry

CHEM 120A, 120B: General Chemistry (5 & 5 units)

PHYS 225: Fundamental Physics: Mechanics (3 units)

PHYS 225L : Fundamental Physics Lab (1 unit)

PHYS 226: Fundamental Physics: Electricity & Magnetism (3 units)

PHYS 226L : Fundamental Physics Lab (1 unit)

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

MATH 150A, 150B: Calculus (4 & 4 units)

CHEM 120A, 120B: General Chemistry (5 & 5 units)

PHYS 211, 211L: Elementary Physics & Lab (3 & 1 units)

PHYS 212, 212L: Elementary Physics & Lab (3 & 1 units)

MATH 150A, 150B: Calculus (4 & 4 units)

Lower Division Preparation for B.S. in Geology

Geology

Geology (8 units):

GEOLOGY 101, 101L: Physical Geology & Lab (3 & 1 units)

GEOLOGY 201, 201L: Earth History & Lab (3 & 1 units)

Chemistry (10 units):

CHEM 120A, 120B: General Chemistry (5 & 5 units)

Math (8 units):

MATH 150A, 150B: Calculus (4 & 4 units)

Biology (choose one course from):

BIOLOGY 101: Elements of Biology (3 units) OR

BIOLOGY 171: Evolution & Biodiversity (5 units)

Physics (8 units) choose one pair of courses:

PHYS 225, 225L: Fundamental Physics: Mechanics &

Lab (3 & 1 units) AND

PHYS 226, 226L: Fundamental Physics: Electricity & Magnetism
& Lab (3 & 1 units)

OR

PHYS 211, 211L: Elementary Physics & Lab (3 & 1 units) AND

PHYS 212, 212L: Elementary Physics & Lab (3 & 1 units)

* Check out the Geology website: <http://geology.fullerton.edu...>

...then schedule an appointment with the CSUF undergraduate geology advisor to learn more about the program in Geological Sciences

(714) 278-3883

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