



Biology with a Specialization in Bioinformatics

BI34

Biology Student Affairs

1128 Pacific Hall

(858) 534-0557

www.biology.ucsd.edu

question@biology.ucsd.edu

This program offers a rigorous, interdisciplinary training in the new and rapid-evolving field of bioinformatics within the Division of Biological Sciences. Bioinformatics refers to advanced computational and experimental methods that model the flow of information (genetic, metabolic and regulatory) in living systems to provide an integrated understanding of the systems properties of model organisms. Given that this is a new and rapidly evolving field, and the fact that large volumes of both qualitative and quantitative biological data will accrue at an increasing pace in the next decade, the bioinformatician of the future must have a substantial mastery in the sciences and in engineering. The program offered by the Division of Biological Sciences is aimed at a student interested in applying, and to some extent developing, tools of bioinformatics for the study of biological systems.

suggested four year plan - subject to change - consult advisors with questions

| | FALL | WINTER | SPRING |
|-----------|--|--|--|
| FR | Chem 6A*# Math 20A | BILD 1*# Chem 6B Math 20B*# | BILD 94 Chem 6C Chem 6BL Math 20C*# |
| SO | BILD 2 CSE 11# Physics 2A | Chem 140A CSE 12# Physics 2B | Chem 140B CSE 21/Math 15B Physics 2C |
| JR | BIBC 102 BICD 100 CSE 100/Math 176 Math 20F | BIBC 103 BIBC 110 CSE 101/Math 188 Math 186 | BIMM 100 BICD 110 BIMM 101 BIMM 181 |
| SR | BIMM 182 BENG 183 UD Bio Elective | BIMM 184 UD Bio Elective | BIMM 185 UD Bio Elective |

This sample plan is based on current year requirements.

Depending on when you entered UCSD, your requirements may be different.

Please refer to the appropriate degree check or contact Biology Student Affairs.

Please be advised that there is a two step admissions process for this major. For further information, please see an advisor.

* screening courses required for admission to pre-major.

screening courses required for admission to the major.

- All courses for the major, including prerequisites, must be taken for a letter grade.
- Math 20 series is required for the Bioinformatics major.
- Physics 2 series is required for the Bioinformatics major.

Staff Advisors

General advising for all majors

| Drop-in Advising | Advising Appointments |
|-------------------------------------|-------------------------------------|
| 9:00am-12:00pm and 1:00pm-4:00pm | 9:00am-12:00pm and 1:00pm-4:00pm |
| Tuesday, Wednesday, Friday | Monday and Thursday |

Faculty Advisor

Call or email to schedule an appointment

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| Dr. William Loomis (858) 534-2543 wloomis@ucsd.edu 2310 Bonner Hall |
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