



Bioinformatics Track in the iPQB Program

To maintain in good standing with the University of California, all students must take a minimum of eight (8) units per quarter.

Yearly Required Courses for All Students:

BP 220	Research Seminars – (1 unit; Fa, Wi, Sp)
BMI 222	Student Informatics Seminar (presented by 2nd year students) – (1 unit; Sp)

Year One:

BP 220	Research seminars presented by visiting scientists/BP Journal Club – (1 unit; Fa, Wi, Sp)
BMI 221	Lab Rotations (1 Per Quarter; Fa, Wi, Sp) – (1-8 units)
BMI 222	2nd Year Student Research Presentations (attendance required) – (1 unit; Sp*)
BMI 223	BBC (Biophysics, Bioinformatics, Chemistry & Chemical Biology) Journal Club – (1 unit; Fa, Wi, Sp)
BMI 224	Graduate Research Opportunities – (1 unit; Fa, Wi, Sp)
BMI 203	Introduction to Biocomputing Algorithms – (3 units; Sp)
Theory I, BMI 206	Physical principles & Bioinformatics – (4 units; Wi)
Theory II, BP 205	Systems & Cells – (4 units; Sp)
Biophys 202	Macromolecular Structure & Interaction I – (3 units; F)
Biophys 202	Macromolecular Structure & Interaction II - (3 units; W)
Chem 241	Statistical Mechanics/Molecular Thermodynamics (5 units; F)

Additional Requirements:

- Bootcamp and Team Challenges are required program activities that do not hold course numbers.
- At the end of year one, you will need to pick a research advisor and lab to join



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Year Two:

BP 220	Research seminars presented by visiting scientists
BMI 223	BBC Journal Club – (1 unit; Fa, Wi, Sp)
BMI 250	Research – (1-8 units)
Becoming Effective Science Teachers (BEST): Theory and Practice	TA Training Course – (Fa)
Biochem 244	Ethical Conduct of Science – (1 unit; Sp)
BMI 222 *	2nd Year Research Seminar Presentation (PI and another faculty member must evaluate your talk)

* 2nd year student talks may take place in any quarter, but for registration purposes, students should sign up for this in Spring quarter only.

Additional Requirements:

- Any remaining required courses from Year One
- Elective pertinent to your research
- One Quarter Teaching Assistantship

Year Three:

BP 220	Research seminars presented by visiting scientists
BMI 250	Research – (1-8 units)
BMI 222	2nd Year Student Research Presentations (attendance required) – (1 unit; Sp)

Additional Requirements:

- Oral Qualifying Exam
- Advance to Candidacy
- Form Thesis Committee

Year Four:

BP 220	Research seminars presented by visiting scientists
BMI 250	Thesis (1-8) Units
BMI 222	2nd Year Student Research Presentations (attendance required) – (1 unit; Sp)

Additional Requirements:

- Meet and update Thesis Committee



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Year Five:

BP 220	Research seminars presented by visiting scientists
BMI 250	Research – (1-8 units)
BMI 299	Thesis (0 units) during Filing Fee Quarter ONLY
BMI 222	2nd Year Student Research Presentations (attendance required) – (1 unit; Sp)

Additional Requirements:

- Meet and update Thesis Committee
- Last quarter apply for Filing Fee Status
- Submit Thesis
- Thesis Seminar

Example Elective Courses:

Becoming Effective Science Teachers (BEST):	Theory and Practice
BMI 209	Statistical Methods in Bioinformatics: Case Studies (Fall 1 unit)
Biochem 200A	Macromolecules (Fall 3 units)
Biochem 201A	Biological Regulatory Mechanisms (Winter 4 units)
Biochem 246	Developmental Biology (Spring 3 units)
BMS 260	Cell Biology (Fall 4 units)
Chem 242	Physical Organic Chemistry (Winter 3 units)
Chem 243	Chemical Biology (Spring 5 units)
Chem 244	Reaction Mechanisms (Fall 3 units)
Genetics 200A	Genetics and Development (Fall 3 units)
Neuroscience 201A	Basic Concepts in Cellular and Molecular Neuroscience (Fall 4 units)
Neuroscience 201B	Basic Concepts in Systems Neuroscience (Winter 4 units)
PSPG 245A	Basic Principles of Pharmaceutical Sciences (Fall 3 units)
PSPG 245B	Basic Principles of Pharmaceutical Sciences (Winter 3 units)
PSPG 245C / BPS 135	Principles of Pharmacogenomics (Spring 2-3 Units)
PC 204 / BMI 204	Introduction to Object-Oriented Programming (Fall 3 units)
BMI 280	Scientific Software Development (Spring 1 unit)
PC 219	Enzyme Mechanisms (Spring 3 units)