

2018-2019 Biology: Cellular and Molecular Track 4 Year Plan

*COM 101 and EN 102 are prerequisites for ALL 300 to 400 level courses.

Fall-Year 1, Credits: 17

BI 100	First Year Science Seminar (1)	<i>Prerequisites: None</i>
BI 215/L	Cellular and Organismal Biology I (4)	<i>Prerequisites: None</i>
CH 203/L	General Chemistry I (5)	<i>Prerequisites: MA 103 or placement</i>
MA 110	Precalculus (3)	<i>Prerequisites: MA 103 or placement</i>
CUH 100	First Year Experience (1)	<i>Prerequisites: None</i>
EN 101	Introduction to Expository Writing (3)	<i>Prerequisites: None</i>

Note: If you are taking MA 103 or 210 your first semester, contact your major advisor. If you are NOT registered for CH 203/L, you should be registered for BI 210L.

Spring-Year 1, Credits: 18

BI 104	Digital Biology (1)	<i>Prerequisites: None</i>
BI 216/L	Cellular and Organismal Biology II (4)	<i>Prerequisites: BI 215/L</i>
CH 204/L	General Chemistry II (5)	<i>Prerequisites: CH 203/L, MA 110 (can be taken concurrently)</i>
EN 102	Expository Writing (3)	<i>Prerequisites: EN 101 or placement</i>
COM 101	Introduction to Communication (3)	<i>Prerequisites: None</i>
BI 210L	Biotechniques Laboratory (2)	<i>Prerequisites: None</i>

Fall-Year 2, Credits: 19

BI 307/L	Molecular Biology I (4)	<i>Prerequisites: BI 210L, BI 216/L</i>
CH 323/L	Organic Chemistry I (5)	<i>Prerequisites: CH 204/L</i>
MA 210	Calculus I (4)	<i>Prerequisites: MA 110 or placement</i>
History Course - Any 100 to 200 level course (3)		<i>Prerequisites: None</i>
Philosophy Course - PH 100, 103, or 105 (3)		<i>Prerequisites: None</i>

Spring-Year 2, Credits: 19

BI 308/L	Molecular Biology II (4)	<i>Prerequisites: BI 307/L</i>
CH 324/L	Organic Chemistry II (5)	<i>Prerequisites: CH 323/L</i>
MA 211	Calculus II (4)	<i>Prerequisites: MA 210</i>
Fine or Performing Arts Course (3)		<i>Prerequisites: None</i>
Religion Course- RE 103, 205, or 211 (3)		<i>Prerequisites: None</i>

Fall-Year 3, Credits: 16

BI 300	Science Writing I (1)	<i>Prerequisites: BI 216/L, BI 307/L</i>
BI 311	Biostatistics (3)	<i>Prerequisites: BI 216/L, MA 211</i>
BI 321/L	Advanced Human & Comp. Anatomy (4)	<i>Prerequisites: BI 216/L</i>
PHY 251/L	University Physics I (5)	<i>Prerequisites: MA 210</i>
Behavioral Science Course (3)		<i>Prerequisites: None</i>

Spring-Year 3, Credits: 16

BI 302	Science Writing II (1)	<i>Prerequisites: BI 216/L and BI 300 or consent of instructor</i>
BI 312	Epidemiology (3)	<i>Prerequisites: BI 216</i>
BI 320/L	Developmental Biology (4)	<i>Prerequisites: BI 216/L, BI 307/L</i>
PHY 252/L	University Physics II (5)	<i>Prerequisites: MA 211, PHY 251</i>
English Literature Course – EN 201, 255, 256, or 280 (3)		<i>Prerequisites: EN 102</i>

Fall-Year 4, Credits: 17

BI 410/L	Advanced Human Physiology I (4)	<i>Prerequisite: BI 307/L</i>
BI 420	Systems Biology (3)	<i>Prerequisites: BI 308</i>
BI 495	Research I (3)	<i>Prerequisites: BI 308/L</i>
Biology Major Elective Course* (4)		<i>Prerequisite: Varies</i>
Social Science Course (3)		<i>Prerequisites: None</i>

Spring-Year 4, Credits: 17

BI 411/L	Advanced Human Physiology II (4)	<i>Prerequisites: BI 308/L</i>
Biology Major Elective Course* (4)		<i>Prerequisite: Varies</i>
Global Awareness Course (3)		<i>Prerequisites: Varies</i>
Interdisciplinary Course (3)		<i>Prerequisites: Varies</i>
Religion – Any 300 level course (3)		<i>Prerequisites: RE 100 to 200 level</i>

*Biology Major Elective Courses:

Choose any two from the following: BI 360/L, BI 430/L, BI 435, BI 499, CH 447

Students who enter the agreement for the four year guarantee are responsible for the following:

- Declare a major with Academic Advising by the beginning of your second year
- Maintain at least a 2.0 cumulative GPA
- Pass pre-major and prerequisite courses with a grade of C or higher on the first attempt
- Complete course work as recommended by this plan each year for four years and meet all checkpoints. Some majors may require summer classes in order to finish in four years.
- Meet with your assigned advisor prior to registration each term to review your progress. Utilize the program evaluation degree audit tool available via the Chaminade University portal. Pay special attention to requirements that may be offered only once per year.
- Clear any holds on your account prior to the beginning of the registration period and enroll in classes within the first week of eligibility during the registration period.
- Accept any available course section that can be accommodated in your schedule of classes.
- Complete your clearance for graduation with your faculty advisor at the beginning of your fourth year.
- Notify your faculty advisor if you are unable to register for a required course in your major or for graduation.

General Education Requirements

Behavioral Science

Choose any one of the following or CLEP II: AN 200, CJ 201, ENV 100, PSY 101, or SO 200

Fine or Performing Arts

Choose any one of the following or CLEP IV: AR 101, 103, 111, 201, 202, 250, 255; EID 216, PAR 100, 101, 102, 201, 205, 208, 210

Global Awareness

Choose any one of the following OR second semester of a Foreign Language:

AN 340, 341, 350, 357; COM 310; EN 305, 422; GE 324; HI 443, 450, 452; HI/POL 344, 419, 438, 439, 442, 444, 451, 453, PH 475; PSY 436, 475, 476, 477, 478, 479; RE 357, 359, 365, 450, 460, 461, 469, 471, 472, 475, 476, 477, 478; SO 331, 401

Mathematics

Requirement varies based on major. MA 211

Natural Sciences

Any two courses with accompanying labs OR one course with lab AND CLEP III: See pages 1 and 2 for further details.

Social Sciences

Choose any one of the following: EC 201, GE 102, GE 103, HI 201, HI 202, POL 111, or POL 211

Interdisciplinary

Choose any one of the following: CJ/RE 435, COM/RE 433, EID/ENV 384, EN 307, ENV/RE 431, GE/EID 335, HI/POL 305, HI/POL 324, HI/POL 419, HI/POL 438, HI/POL 439, HI/POL 442, HI/POL 444, HI/RE 322, NUR/RE 371, PH/RE/SO 305, PH/SO 360, PH/RE 425, PH/PSY 471, PH/PSY/RE 475, PSY/RE 476, PSY/RE 477, PSY/RE 478, PH/PSY/RE 463, RE/PH 473, PH/RE/SO 338

Graduation Requirements:

- Satisfied all core curriculum requirements including nine credits of upper division course work outside the disciplines required for the declared major and the interdisciplinary course
- Satisfied all requirements for the major discipline
- Completed a minimum of 45 upper division credits
- Achieved a minimum GPA of 2.0 (some majors may require a higher GPA)
- Completed at least 30 semester hour credits in residence, including a least half of the credits in the major discipline
- Completed at least 120 semester hours