

## 4 YEAR PLAN FOR 2009-10 BIOLOGY (BS) MAJORS

✓	Fall - Year 1 (15 semester hours)	Prerequisites	Offered	✓	Spring - Year 1 (16 semester hours)	Prerequisites	Offered
	MA 103 College Algebra (G)	n/a	F, S		BI 204 & 204L - Cellular & Organismic Biology & Lab (P)	n/a	S
	BI 190 - Premed Seminar (P)	n/a	F		COM 101 - Intro to Communication (G)	n/a	F, S
	BI 203 & 203L - Cellular & Organismic Biology & Lab (G/P)	n/a	F		EN 102 - Expository Writing (G)	EN 101	F, S
	CUH 100 - First Year Experience (E)	n/a	F		MA 110 - Pre-Calculus (P)	MA 103	F, S
	EN 101 - Intro to Expository Writing (G)	n/a	F, S		Religion - RE 103, 205, or 211 (G)	n/a	F, S, SU
	History - any 100 or 200 level History course (G)	n/a	F, S				
✓	<b>Fall - Year 2 (16 semester hours)</b>			✓	<b>Spring - Year 2 (15 semester hours)</b>		
	Behavioral Science course* (G)	n/a	F, S, SU		CH 204 & 204L - General & Analytical Chemistry II & Lab (P)	MA 110 & CH 203/203L	S
	BI 210 - Biological Technique (P)	one sem of Bio	F, S		Fine Arts course* (G)	n/a	F,S,SU
	CH 203 & 203L - General & Analytical Chemistry I & Lab (G/P)	MA 103	F		MA 211 - Calculus II (P)	MA 210	F,S
	MA 210 - Calculus I (P)	MA 110	F, S		Social Science course* (G)	n/a	F, S
	Philosophy - PH 100, 103, or 105 (G)	n/a	F, S, SU				
✓	<b>Fall - Year 3 (18 semester hours)</b>			✓	<b>Spring - Year 3 (16 semester hours)</b>		
	BI 351 & 351L - Comparative Vertebrate Anatomy & Lab (M)	BI 203/L, BI 204/L	F		CH 324 & 324L - Organic Chemistry II & Lab (P)	CH 323/323L	S
	BI 431 & 431L - Genetics & Lab (M)	BI 203/L, BI 204/L Rec: CH 203/L, CH 204/L	F, S		Major elective course (M)	varies	F, S
	CH 323 & 323L - Organic Chemistry I & Lab (G/P)	one yr college chemistry	F		Major elective course (M)	varies	F, S
	PHY 251 & 251L - University Physics I & Lab (P)	MA 210	F		PHY 252 & 252L - University Physics II & Lab (P)	PHY 251/L, MA 211	S
✓	<b>Fall - Year 4 (16 semester hours)</b>			✓	<b>Spring - Year 4 (15 semester hours)</b>		
	300-400 level Elective course outside the major (G)	#, varies	F, S, SU		Religion - any 300 level Religion course (G)	100-200 level RE	F,S,SU
	BI 471 & 471L - Ecology & Lab (M)	BI 203//203L & BI 204/204L	varies		BI 370 & 370L - Cell & Molecular Biology & Lab (M)	BI 203, BI 204, CH 323, & CH 324	S
	Global Awareness/FL course* (G)	#, varies	F, S		BI 442 & 442L - Gen & Comparative Physiology & Lab (M)	BI 203/L, BI 204/L, CH 323/L, & CH 324/L	S
	Major elective course (M)	#, varies	F, S		BI 490 - Senior Seminar (M)	Bio Senior	F, S
	Major elective course (M)	varies	F, S		Major elective course (M)	varies	F, S
✓	<b>Summer Courses (9 semester hours)</b>						
	English Literature - EN 201, 255, or 256 (G)	EN 102	F,S,SU				
	Interdisciplinary course* (G)	EN 102	F,S,SU				
	300-400 level Elective course outside the major (G)	EN 102	F,S,SU		** Major Electives - 15 sem. hours necessary		

**Fifteen elective major courses chosen with the approval of the Biology major advisor.**

(G - General Education, P - Premajor, F - Foundation, M - Major, E - Elective, S - Spring, F - Fall, SU - Summer)

TOTAL SEMESTER HOURS    **139**

Prerequisites require a "C" or better

**NOTE: This plan is just a guide. Each individual plan may vary**  
"SU" courses are not guaranteed to be offered every summer.

**For detailed information and course descriptions consult [www.chaminade.edu/catalog](http://www.chaminade.edu/catalog)**  
# - EN 102 & COM 101 are prerequisites courses for ALL 300-400 level courses

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### GENERAL EDUCATION REQUIREMENTS DETAILS

**BEHAVIORAL SCIENCE** (choose any ONE of the following)

AN 200, CJ 201, ENV 100, PSY 101, SO 200

**FINE ARTS** (choose any ONE of the following)

AR 101, AR 103, AR 111, AR 201, AR 202, AR 250, AR 255, MU 208, PAR 100, PAR 101, PAR 102, PAR 201, PAR 204, PAR 205, PAR 208, PAR 210

**GLOBAL AWARENESS** (choose any ONE of the following) **OR Second Semester of a Foreign Language**

AN 340, AN 350, AN 357, AN 360, COM 310, EN 305, EN 422, HI 342, HI 344, HI 442, HI 443, HI 444, HI 450, HI 451, HI 452, HI 453, PH 475, POL 342, POL 344, POL 442, POL 444, POL 451, POL 453, PSY 436, PSY 475, PSY 476, PSY 477, PSY 478, PSY 479, RE 357, RE 359, RE 365, RE 450, RE 460, RE 461, RE 469, RE 471, RE 472, RE 475, RE 476, RE 477, RE 478, SO 331, SO 401

**INTERDISCIPLINARY** (choose any ONE of the following)

CJ/RE 435, COM/RE 433, EN 307, ENV/RE 431, GE/ID 335, HI/POL 305, HI/RE 322, HI/POL 324, HI/POL 442, HI/POL, 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

**MATHEMATICS**

Requirement varies based on major. Consult specific program requirements.

**NATURAL SCIENCES**

TWO courses, including TWO LABS in Biology, Environmental Studies, Chemistry, or Physics. See below for science courses for non-science majors.

**SOCIAL SCIENCE** (choose any ONE of the following)

EC 201, GE 102, GE 103, HI 201, HI 202, POL 111, POL 211

**UPPER DIVISION ELECTIVES**

Any upper division (300 or 400 level) courses taken outside the major for which prerequisites are satisfied

### NATURAL SCIENCE COURSES FOR NON-SCIENCE MAJORS

BI 101 & 101L, BI 102 & 102L, BI 103 & 103L, BI 110 & 110L, BI 115 & 115L, BI 130 & 130L, BI 131 & 131L, CH 103 & 103L, CH 107 & 107L, ENV 115 & ENV 115L, ENV 201 & 201L, ENV 202 & 202L, PHY 111 & 111L, PHY 121 & 121L, PHY 140 & 140L

### 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 at least half of the credits in the major discipline
- ~ Completed a minimum of 120 semester hours