



B.S. in Biology
Pre-Professional Track
BIOSCPPBS.2010
60 credits, incl. 9 GE credits

Effective Date: 08/ 2010

Name of Student:		
Student ID #:		Graduation Date
Home Country:	<input type="checkbox"/> IWORCK	
Advisor:	Name	Date

Science Core **15 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
BIOL 112	Biology for Majors (GenEd)	3		F,W		
CHEM 105/L	General Chemistry I/Lab (GenEd - 3)	4	MATH 110 or equivalent	F,W		/
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L	W,S		/
BIOL 265/L	Molecular & Cell Biology	4	BIOL 112, CHEM 105/L	F,W,S		/

Biology Core **12 Credits**

BIOL 220/L	Microbiology/Lab	4	¾ Science Core	F,W		/
BIOL 376/L	Genetics/Lab	4	¾ Science Core	F		/
BIOL 491L	Research & Thesis (GenEd)	1	Jr./Sr.+ Science Core	F,W,S		
BIOL 492L	Research & Thesis (GenEd)	1	BIOL 491L	F,W,S		
BIOL 493L	Research & Thesis (GenEd)	1	BIOL 492L	F,W,S		
BIOL 494L	Research & Thesis (GenEd)	1	BIOL 493L	F,W,S		

Biology Electives **25 Credits**
 Minimum of 1 class from 200 level AND a minimum of 4 classes from the 300 & 400 levels to end with total of 25 elective credits. *Only 1 credit of BIOL 495R counted toward Biology elective credits. (Elective recommended for MCAT Preparation starred.)

Minimum: 1 Class in 200 Level

BIOL 248/L	Conservation Biology/Lab	4	BIOL 112	W-even		/
BIOL 260/L	Elementary Human Anatomy/Lab	3	¾ Science Core	W		/
BIOL 261/L	Elementary Human Physiology/Lab	4	¾ Science Core	F		/

Minimum: 4 Class in 300-400 Level

BIOL 320/L	Pathogenic Microbiology/Lab	4	Science Core and BIOL 220/L	S-even		/
BIOL 330/L	Bioinformatics/Lab	4	Science Core	S-odd		/
BIOL 340	Experimental Design/Analysis	3	¾ Science Core	S		
BIOL 350/L	General Ecology/Lab	4	¾ Science Core & BIOL 201/L or 206/L	F		/
BIOL 374	Evolution & Human Prehistory	3	BIOL 112	W-even		
BIOL 383/L	Histology & Dev. Biology/Lab	4	¾ Science Core	W		/
BIOL 390R	Special Topics in Biology	Variable		Variable		
BIOL 441/L	Molecular Biology/Lab	4	Science Core	W		/
BIOL 442/L	Advanced Cellular Biology/Lab	4	Science Core	S		/
BIOL 445/L	Immunology/Lab	4	Science Core	F		/
BIOL 460	Advanced Human Anatomy	3	BIOL 260/L	F		
BIOL 465/L	Principles of Physiology/Lab	4	Science Core	W		/
BIOL 475	Pathogenic Physiology	3	Science Core and BIOL 261/L or BIOL 465/L	F,S		
BIOL 495R	Independent Study	1	PERMISSION ONLY	F,W,S		
CHEM 381/L	Biochemistry/Lab	4	CHEM 252/L, BIOL 265/L	F,S		/

Required Chemistry **8 Credits**

CHEM 251/L	Organic Chemistry I/Lab	4	CHEM 106/L	F		/
CHEM 252/L	Organic Chemistry II/Lab	4	CHEM 251/L	W		/

Recommended for Graduate School Pre-requisites and Entrance Exams Preparation

MATH 112	Calculus (GenEd)	5	MATH 111	F,W		/
PHYS 121/L	General Physics I/Lab (GenEd-3)	4	MATH 111 and 112	W,S		/
PHYS 122/L	General Physics II/Lab	4	PHYS 121/L	W,S		/
PHYS 221/L	General Physics III/Lab	4	PHYS 121/L	F		/

Total Credits Mapped for Graduation:

No credit of less than C- in any BIOL/CHEM course is counted toward graduation



B.S. in Biology
Molecular Track
BIOSCPPBS.2010
60 credits, incl. 9 GE credits

Effective Date: 08/ 2010

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Advisor:	Name	Date

Science Core **15 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
BIOL 112	Biology for Majors (GenEd)	3		F,W		
CHEM 105/L	General Chemistry I/Lab (GenEd -3)	4	MATH 110 or equivalent	F,W		/
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L	W,S		/
BIOL 265/L	Molecular & Cell Biology	4	BIOL 112, CHEM 105/L	F,W,S		/

Biology Core **12 Credits**

BIOL 220/L	Microbiology/Lab	4	¾ Science Core	F,W		/
BIOL 376/L	Genetics/Lab	4	¾ Science Core	F		/
BIOL 491L	Research & Thesis (GenEd)	1	Jr./Sr.+ Science Core	F,W,S		
BIOL 492L	Research & Thesis (GenEd)	1	BIOL 491L	F,W,S		
BIOL 493L	Research & Thesis (GenEd)	1	BIOL 492L	F,W,S		
BIOL 494L	Research & Thesis (GenEd)	1	BIOL 493L	F,W,S		

Chemistry Requirements **8 Credits**

CHEM 251/L	Organic Chemistry I/Lab	4	CHEM 106/L	F		
CHEM 252/L	Organic Chemistry II/Lab	4	CHEM 251/L	W		

Major Electives **25 Credits**

Minimum of 1 class from 200 level AND a minimum of 4 classes from the 300 & 400 levels to end with total of 25 elective credits. **MOLECULAR BIOLOGY EMPHASIS MAJORS REQUIRED TO TAKE ALL OF HIGHLIGHTED ELECTIVES.** *Only 1 credit of BIOL 495R counted toward Biology elective credits.

Minimum: 1 Class in 200 Level

BIOL 201/L	Botany/Lab	4	BIOL 112	W		
BIOL 212/L	Marine Biology/Lab	4	BIOL 112	S		
BIOL 206/L	Zoology/Lab	4	BIOL 112	F		
BIOL 248/L	Conservation Biology/Lab	4	¾ Science Core	W-even		/

Minimum: 4 Class in 300-400 Level

BIOL 320/L	Pathogenic Microbiology/Lab	4	Science Core and BIOL 220/L	S-even		/
BIOL 330/L	Bioinformatics/Lab	4	Science Core	S-odd		/
BIOL 340	Experimental Design/Analysis	3	¾ Science Core	S		
BIOL 350/L	General Ecology/Lab	4	¾ Science Core & BIOL 201/L or 206/L	F		/
BIOL 374	Evolution & Human Prehistory	3	BIOL 112	W-even		
BIOL 383/L	Histology & Dev. Biology/Lab	4	¾ Science Core	F,W		/
BIOL 390R	Special Topics in Biology	Variable		Variable		
BIOL 412/L	Marine Ecology	4	Science Core & BIOL 212/L	W-odd		
BIOL 441/L	Molecular Biology/Lab	4	Science Core	W		/
BIOL 442/L	Advanced Cellular Biology/Lab	4	Science Core	F		/
BIOL 445/L	Immunology	4	Science Core	F		/
BIOL 465/L	Principles of Physiology/Lab	4	Science Core	W		/
BIOL 475	Pathogenic Physiology	3	Science Core and BIOL 261/L or BIOL 465/L	S		
BIOL 495R*	Independent Study	1	PERMISSION ONLY	F,W,S		
CHEM 381/L	Biochemistry/Lab	4	CHEM 252/L, BIOL 265/L	F,S		/

TOTAL CREDITS:

No credit of less than C- in any BIOL/CHEM course is counted toward graduation



B.S. in Biology
Marine Track
BIOSCPPBS.2010
60 credits, incl. 9 GE credits

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Advisor:	Name	Date

Science Core **15 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
BIOL 112	Biology for Majors (GenEd)	3		F,W		
CHEM 105/L	General Chemistry I/Lab (GenEd - 3)	4	MATH 110 or equivalent	F,W		/
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L	W,S		/
BIOL 265/L	Molecular & Cell Biology	4	BIOL 112, CHEM 105/L	F,W,S		/

Biology Core **12 Credits**

BIOL 201/L	General Botany/Lab	4	BIOL 112	W		/
BIOL 206/L	General Zoology/Lab	4	BIOL 112	F		/
BIOL 491L	Research & Thesis (GenEd)	1	Jr./Sr.+ Science Core	F,W,S		
BIOL 492L	Research & Thesis (GenEd)	1	BIOL 491L	F,W,S		
BIOL 493L	Research & Thesis (GenEd)	1	BIOL 492L	F,W,S		
BIOL 494L	Research & Thesis (GenEd)	1	BIOL 493L	F,W,S		

Chemistry Requirements **8 Credits**

CHEM 251/L	Organic Chemistry I/Lab	4	CHEM 106/L	F		
CHEM 252/L	Organic Chemistry II/Lab	4	CHEM 251/L	W		

Major Electives **25 Credits**

Minimum of 1 class from 200 level AND a minimum of 4 classes from the 300 & 400 levels to end with total of 25 elective credits. **MARINE BIOLOGY EMPHASIS MAJORS ARE RECOMMENDED TO CHOOSE ELECTIVES FROM THOSE BOLDED BELOW.** *Only 1 credit of BIOL 495R counted toward Biology elective credits.

Minimum: 1 Class in 200 Level

BIOL 204/L	Pacific Natural History/Lab	4	BIOL 112	S		
BIOL 212/L	Marine Biology/Lab	4	BIOL 112	S		
BIOL 220/L	Micro Biology/Lab	4	¼ Science Core	F,W		
BIOL 248/L	Conservation Biology/Lab	4	BIOL 112	W-even		/
BIOL 261/L	Elementary Human Physiology/Lab	4	¼ Science Core	F		/
GEOL 105	Geology of the Pacific Basin (GenEd)	3		F,W		
OCEN 201	Oceanography and Marine Science	3	Any college-level natural science course (CHEM, BIOL, PHYS, PHSC, GEOL or ASTR)	Varies		

Minimum: 4 Classes in 300-400 Level

BIOL 300/L	Animal Behavior/Lab	4	¼ Science Core	W-odd		
BIOL 320/L	Pathogenic Microbiology/Lab	4	Science Core and BIOL 220/L	S-even		/
BIOL 330/L	Bioinformatics/Lab	4	Science Core	S-odd		/
BIOL 340	Experimental Design/Analysis	3	¼ Science Core	S		
BIOL 350/L	General Ecology/Lab	4	¼ Science Core & BIOL 201/L or 206/L	F		/
BIOL 374	Evolution & Human Prehistory	3	BIOL 112	W-even		
BIOL 376/L	Genetics/Lab	4	¼ Science Core	F		
BIOL 383/L	Histology & Dev. Biology/Lab	4	¼ Science Core	F,W		/
BIOL 390R	Special Topics in Biology	Varies		Variable		
BIOL 412/L	Marine Ecology	4	Science Core & BIOL 212/L	W-odd		
BIOL 441/L	Molecular Biology/Lab	4	Science Core	W		/
BIOL 442/L	Advanced Cellular Biology/Lab	4	Science Core	F		/
BIOL 445/L	Immunology	4	Science Core	F		/
BIOL 465/L	Principles of Physiology/Lab	4	Science Core	W		/
BIOL 475	Pathogenic Physiology	3	Science Core and BIOL 261/L or BIOL 465/L	S		
BIOL 495R*	Independent Study	1	PERMISSION ONLY	F,W,S		
CHEM 381/L	Biochemistry/Lab	4	CHEM 252/L, BIOL 265/L	F,S		/

Total Credits Mapped for Graduation:

No credit of less than C- in any BIOL/CHEM course is counted toward graduation



B.S. in Biology
General Track
BIOLSCIBS.2010
60 credits, incl. 9 GE credits

Effective Date: 08/ 2010

Name of Student:		
Student ID #:		Graduation Date
Home Country:	<input type="checkbox"/> IWORK	
Advisor:	Name	Date

Science Core **15 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
BIOL 112	Biology for Majors (GenEd)	3		F,W		
CHEM 105/L	General Chemistry I/Lab (GenEd -3)	4	MATH 110 or equivalent	F,W		/
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L	W,S		/
BIOL 265/L	Molecular & Cell Biology	4	BIOL 112, CHEM 105/L	F,W,S		/

General Biology Major Core Requirements **12 Credits**

BIOL 201/L	General Botany/Lab	4	BIOL 112	W		/
BIOL 206/L	General Zoology/Lab	4	BIOL 112	F		/
BIOL 491L	Research & Thesis (GenEd)	1	Science Core; Jr./Sr. status	F,W,S		
BIOL 492L	Research & Thesis (GenEd)	1	BIOL 491L	F,W,S		
BIOL 493L	Research & Thesis (GenEd)	1	BIOL 492L	F,W,S		
BIOL 494L	Research & Thesis (GenEd)	1	BIOL 493L	F,W,S		

Chemistry Requirements **8 Credits**

CHEM 251/L	Organic Chemistry I/Lab	4	CHEM 106/L	F		/
CHEM 252/L	Organic Chemistry II/Lab	4	CHEM 251/L	W		/

Recommended Electives **25 Credits**

Minimum of 1 class from 200 level AND a minimum of 4 classes from the 300 & 400 levels to end with total of 25 elective credits. *Only 1 credit of BIOL 495R counted toward Biology elective credits.

Minimum: 1 Class in 200 Level

BIOL 204/L	Pacific Natural History/Lab	4	BIOL 112	S		/
BIOL 212/L	Marine Biology/Lab	4	BIOL 112	S		/
BIOL 220/L	Microbiology/Lab	4	¼ Science Core	F,W		/
BIOL 248/L	Conservation Biology/Lab	4	BIOL 112	W-even		/
BIOL 260/L	Elementary Human Anatomy/Lab	3	¾ Science Core	W		/
BIOL 261/L	Elementary Human Physiology/Lab	4	¾ Science Core	F		/

Minimum: 4 Class in 300-400 Level

BIOL 300/L	Animal Behavior/Lab	4	¾ Science Core	W-odd		/
BIOL 320/L	Pathogenic Microbiology/Lab	4	Science Core and BIOL 220/L	S-even		/
BIOL 330/L	Bioinformatics/Lab	4	Science Core	S-odd		/
BIOL 340	Experimental Design/Analysis	3	¾ Science Core	S		
BIOL 350/L	General Ecology/Lab	4	¾ Science Core & BIOL 201/L or 206/L	F		/
BIOL 374	Evolution & Human Prehistory	3	BIOL 112	W-even		
BIOL 376/L	Genetics/Lab	4	¾ Science Core	F		/
BIOL 383/L	Histology & Dev. Biology/Lab	4	¾ Science Core	F,W		/
BIOL 390R	Special Topics in Biology	Variable		Variable		
BIOL 412/L	Marine Ecology/Lab	4	Science Core & BIOL 212/L	W-odd		/
BIOL 441/L	Molecular Biology/Lab	4	Science Core	W		/
BIOL 442/L	Advanced Cellular Biology/Lab	4	Science Core	F		/
BIOL 445/L	Immunology	4	Science Core	F		/
BIOL 460	Advanced Human Anatomy	3	BIOL 260/L	F		
BIOL 465/L	Principles of Physiology/Lab	4	Science Core	W		/
BIOL 475	Pathogenic Physiology	3	Science Core and BIOL 261/L or BIOL 465/L	S		
BIOL 495R*	Independent Study	1	PERMISSION ONLY	F,W,S		
CHEM 381/L	Biochemistry/Lab	4	CHEM 252/L, BIOL 265/L	F,S		/

Total Credits Mapped for Graduation:

No credit of less than C- in any BIOL/CHEM course is counted toward graduation

The terms of this MRS will be honored by the Department and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.