

# Biological Sciences

## BS in Biology with Cellular/Molecular Emphasis

### Suggested Course Outline

#### Freshman

Freshman Seminar	71-101	1	Composition	10-112	3
Composition	10-111	3	*General Botany & Lab	04-112/113	4
*General Zoology & Lab	04-114/115	4	General Chemistry II & Lab	24-116/117	5
General Chemistry I & Lab	24-114/115	4	America – A Historical Survey	33-155	3
Humanities/Philosophy		3	<hr/>		
Total		15	Total		15

#### Sophomore

Microbiology	04-140	4	Genetics	04-350	3
Organic Chemistry I & Lab	24-342/343	5	Organic Chemistry II & Lab	24-344/345	5
Fundamentals of Oral Comm	29-102	3	Intro to Literature	10-220	3
Intro to American Government	34-102	3	**Calculus	17-120	4
Informational Tech IR		3	<hr/>		
Total		18	Total		15

#### Junior

Cell Biology	04-310	4	Molecular Biology (ODD YEARS)	04-440	4
General Physics I & Lab	25-110/111	4	General Physics II & Lab	25-112/113	4
Fine Arts		3	Multicultural IR		3
General Psychology	08-103	3	<hr/>		
Total		14***	Total		11***

#### Senior

Human Physiology I	04-438	4	<b>OR</b>	Plant Physiology (EVEN YEARS)	04-430	4
Basic Ecology	04-376	4		Immunology	04-444	4
Social Science		3		Biological Science Seminar	04-491	1
General Biochemistry & Lab	24-562/563	5	<b>OR</b>	Elementary Biochemistry & Lab	24-362/363	4
Total		16		Biology Practicum	04-383	1
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				Total		14

\*Biology 04-102/103 or equivalent of two years of high school biology required as prerequisite.

\*\*Prerequisite: College Algebra (17-118) and Trigonometry (17-119) or Precalculus (17-117)

\*\*\*Additional hours needed to meet minor requirement of 24 hours. These courses can be taken various semesters as time allows.

*( Please note this outline does not supersede the requirements listed in the Northwest Undergraduate Student Catalog nor does it constitute a contractual arrangement, rather it is for information only. It is the student's responsibility to be aware of and to meet all University and Department requirements as listed in the catalog.*

*Spring 2009*