

# Minor in Molecular Biology (285103) MAP Sheet

Life Sciences, Microbiology and Molecular Biology

For students entering the degree program during the 2017-2018 curricular year.



University Core and Graduation Requirements	Suggested Sequence of Courses																																																																																																																
<p><b>University Core Requirements:</b></p> <table border="0"> <thead> <tr> <th>Requirements</th> <th>#Classes</th> <th>Hours</th> <th>Classes</th> </tr> </thead> <tbody> <tr> <td colspan="4"><b>Religion Cornerstones</b></td> </tr> <tr> <td>Teachings and Doctrine of The Book of Mormon</td> <td>1</td> <td>2.0</td> <td>REL A 275</td> </tr> <tr> <td>Jesus Christ and the Everlasting Gospel</td> <td>1</td> <td>2.0</td> <td>REL A 250</td> </tr> <tr> <td>Foundations of the Restoration</td> <td>1</td> <td>2.0</td> <td>REL C 225</td> </tr> <tr> <td>The Eternal Family</td> <td>1</td> <td>2.0</td> <td>REL C 200</td> </tr> <tr> <td colspan="4"><b>The Individual and Society</b></td> </tr> <tr> <td>American Heritage</td> <td>1-2</td> <td>3-6.0</td> <td>from approved list</td> </tr> <tr> <td>Global and Cultural Awareness</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td colspan="4"><b>Skills</b></td> </tr> <tr> <td>First Year Writing</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Advanced Written and Oral Communications</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Quantitative Reasoning</td> <td>1</td> <td>3.0-4.0</td> <td>from approved list</td> </tr> <tr> <td>Languages of Learning (Math or Language)</td> <td>Variable</td> <td>3.0-20.0</td> <td>from approved list</td> </tr> <tr> <td colspan="4"><b>Arts, Letters, and Sciences</b></td> </tr> <tr> <td>Civilization 1</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Civilization 2</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Arts</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Letters</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Biological Science</td> <td>1</td> <td>3-4.0</td> <td>from approved list</td> </tr> <tr> <td>Physical Science</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td>Social Science</td> <td>1</td> <td>3.0</td> <td>from approved list</td> </tr> <tr> <td colspan="4"><b>Core Enrichment: Electives</b></td> </tr> <tr> <td>Religion Electives</td> <td>3-4</td> <td>6.0</td> <td>from approved list</td> </tr> <tr> <td>Open Electives</td> <td>Variable</td> <td>Variable</td> <td>personal choice</td> </tr> <tr> <td colspan="4"><b>Graduation Requirements:</b></td> </tr> <tr> <td>Minimum residence hours required</td> <td></td> <td>30.0</td> <td></td> </tr> <tr> <td>Minimum hours needed to graduate</td> <td></td> <td>120.0</td> <td></td> </tr> </tbody> </table>	Requirements	#Classes	Hours	Classes	<b>Religion Cornerstones</b>				Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275	Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250	Foundations of the Restoration	1	2.0	REL C 225	The Eternal Family	1	2.0	REL C 200	<b>The Individual and Society</b>				American Heritage	1-2	3-6.0	from approved list	Global and Cultural Awareness	1	3.0	from approved list	<b>Skills</b>				First Year Writing	1	3.0	from approved list	Advanced Written and Oral Communications	1	3.0	from approved list	Quantitative Reasoning	1	3.0-4.0	from approved list	Languages of Learning (Math or Language)	Variable	3.0-20.0	from approved list	<b>Arts, Letters, and Sciences</b>				Civilization 1	1	3.0	from approved list	Civilization 2	1	3.0	from approved list	Arts	1	3.0	from approved list	Letters	1	3.0	from approved list	Biological Science	1	3-4.0	from approved list	Physical Science	1	3.0	from approved list	Social Science	1	3.0	from approved list	<b>Core Enrichment: Electives</b>				Religion Electives	3-4	6.0	from approved list	Open Electives	Variable	Variable	personal choice	<b>Graduation Requirements:</b>				Minimum residence hours required		30.0		Minimum hours needed to graduate		120.0		<p>Note: Be aware of prerequisites for the above courses (usually filled in a coupled major).</p>
Requirements	#Classes	Hours	Classes																																																																																																														
<b>Religion Cornerstones</b>																																																																																																																	
Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275																																																																																																														
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250																																																																																																														
Foundations of the Restoration	1	2.0	REL C 225																																																																																																														
The Eternal Family	1	2.0	REL C 200																																																																																																														
<b>The Individual and Society</b>																																																																																																																	
American Heritage	1-2	3-6.0	from approved list																																																																																																														
Global and Cultural Awareness	1	3.0	from approved list																																																																																																														
<b>Skills</b>																																																																																																																	
First Year Writing	1	3.0	from approved list																																																																																																														
Advanced Written and Oral Communications	1	3.0	from approved list																																																																																																														
Quantitative Reasoning	1	3.0-4.0	from approved list																																																																																																														
Languages of Learning (Math or Language)	Variable	3.0-20.0	from approved list																																																																																																														
<b>Arts, Letters, and Sciences</b>																																																																																																																	
Civilization 1	1	3.0	from approved list																																																																																																														
Civilization 2	1	3.0	from approved list																																																																																																														
Arts	1	3.0	from approved list																																																																																																														
Letters	1	3.0	from approved list																																																																																																														
Biological Science	1	3-4.0	from approved list																																																																																																														
Physical Science	1	3.0	from approved list																																																																																																														
Social Science	1	3.0	from approved list																																																																																																														
<b>Core Enrichment: Electives</b>																																																																																																																	
Religion Electives	3-4	6.0	from approved list																																																																																																														
Open Electives	Variable	Variable	personal choice																																																																																																														
<b>Graduation Requirements:</b>																																																																																																																	
Minimum residence hours required		30.0																																																																																																															
Minimum hours needed to graduate		120.0																																																																																																															

**Minor in Molecular Biology (285103)**  
**2017-2018 Program Requirements (16 - 19 Credit Hours)**

**REQUIREMENT 1** Complete 4 courses

MMBIO 240 - Molecular Biology	3.0
MMBIO 441 - Advanced Molecular Biology	3.0
MMBIO 468 - (MMBio-Bio-PWS) Genomics	3.0
PWS 340 - Genetics	3.0

**REQUIREMENT 2** Complete 6.0 hours from the following course(s)

BIO 165 - Introduction to Bioinformatics	3.0
BIO 420 - Evolutionary Biology	2.0
BIO 463 - Genetics of Human Disease	3.0
BIO 465 - Bioinformatics	3.0
MMBIO 360 - Microbial Genetics	4.0
MMBIO 442 - Advanced Molecular Biology Laboratory	2.0
MMBIO 512 - Gene Regulation	2.0
PDBIO 360 - Cell Biology	3.0

*Note: Be aware of prerequisites for the above courses (usually filled in a coupled major).*

**MAP DISCLAIMER**

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

**DEPARTMENT INFORMATION**

**Department of Microbiology and Molecular Biology**

Brigham Young University  
4007 Life Sciences Building  
Provo, UT 84602  
Telephone: (801) 422-1102

**ADVISEMENT CENTER INFORMATION**

**Life Science Student Services**

Brigham Young University  
2060 Life Sciences Building  
Provo, UT 84602  
Telephone: (801) 422-3042  
lifesciences@byu.edu