

<b>STUDENT NAME</b>		<b>SID #</b>	
<b>PROGRAM CHAIR</b>		<b>DATE</b>	

PROGRAM REQUIREMENTS			Requested Substitution/Transfer Credits (if applicable)			Completed		
Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
<b>PREREQUISITES</b>								
	Associate's degree in Biotechnology, Molecular Sciences Technician, General Science Technician, or equivalent degree with a minimum cumulative GPA of 2.7. Math and Science transfer degree students may also be eligible.	90						
<i>Demonstrated completion of the following courses or their equivalent:</i>								
<b>MATH 130</b>	College Level Statistics	5						
<b>MATH&amp; 151/152</b>	Calculus I & II	10						
<b>ENGL&amp; 101</b>	English Composition I	5						
<b>ENGL&amp; 235</b>	Technical Writing	5						
<b>CHEM&amp; 161/162/163</b>	General Chemistry sequence	18						
<b>CHEM 275</b>	Introduction to Instrumental Analysis	6						
<b>BIOL&amp; 160 or 211</b>	General Biology or Biology Majors Cellular	6						
<b>BIOL 275</b>	Laboratory Methods in Genomics	6						
	<b>Science electives</b> as listed in the AAS-T Molecular Sciences Technician science electives <a href="http://www.bellevuecollege.edu/programs/degrees/proftech/applied/">www.bellevuecollege.edu/programs/degrees/proftech/applied/</a>	12						
<b>BTS 147</b>	Presentation Design and Delivery	3						
<b>CMST&amp; 250 or 280</b>	Communication Studies	5						
	<b>Humanities</b> course from the AAS-DTA list	5						
	<b>Social Science</b> course from the AAS-DTA list	5						
<b>TOTAL PREREQUISITES</b>		90						
<b>GENERAL EDUCATION REQUIREMENTS</b>								
<b>MBS 410</b>	Modern Topics in Bioethics	5						
<b>CORE PROGRAM REQUIREMENTS</b>								
<b>CHEM&amp; 261</b>	Organic Chemistry I	6						
<b>CHEM&amp; 262</b>	Organic Chemistry II	6						
<b>CHEM&amp; 263</b>	Organic Chemistry III	6						
<b>CHEM 405</b>	Biochemistry I	5						
<b>CHEM 406</b>	Biochemistry II	5						
<b>DA 310</b>	Introduction to Data Analytics	5						
<b>MBS 320</b>	Molecular Biosciences Seminar ( <i>can be repeated up to three times for credit</i> )	2						
<b>MBS 330</b>	Modern Genetics	5						
<b>MBS 340</b>	Molecular Cell Biology	5						
<b>MBS 350</b>	Bioinformatics	5						
<b>MBS 455</b>	Advanced Methods in Molecular Biology	6						
<b>MBS 499</b>	Capstone Project	10						
<b>PHYS&amp; 114</b>	General Physics I	6						
<b>PHYS&amp; 115</b>	General Physics II	6						

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Course	Course Title	CR	College/University	Course	CR	Grade	Quarter	Year
<b>UPPER DIVISION ELECTIVES (CONTINUED)</b>								
Choose 12 credits from the following:		<b>12</b>						
<b>BIOL&amp; 260</b>	Microbiology (6 Cr)							
<b>BIOL&amp; 241</b>	Anatomy and Physiology I (6 Cr)							
<b>BIOL&amp; 242</b>	Anatomy and Physiology II (6 Cr)							
<b>BIOL 312</b>	Biology of Cancer (5 Cr)							
<b>BTS 280</b>	Project Planning, Tracking, and Reporting (5 Cr)							
<b>MBS 430</b>	Systems Immunology (5 Cr)							
<b>MBS 460</b>	Introduction to Biomedical and Biotechnology Regulations (2 Cr)							
<b>MBS 470</b>	Introduction to Patent Law (2 Cr)							
<b>COURSEWORK TOTAL</b>		<b>95</b>						
<b>GRAND TOTAL</b>		<b>185</b>						

Successful program graduates of the Bachelor of Applied Science in Molecular Biosciences should possess the skills necessary for careers in a variety of disciplines such as molecular biology, medicine, forensics, biochemistry, pharmacology, neuroscience, food chemistry, and environmental science.

Graduates will have a thorough understanding of the scientific disciplines underpinning molecular biosciences, as well as extensive laboratory experience using state-of-the-art equipment. They will also bring understanding of the complex regulatory environment surrounding the biosciences as well as the business skills needed to manage a project.

### PROGRAM HIGHLIGHTS

This applied degree differs significantly from the traditional undergraduate science degree in several ways, including:

- Focus on developing a solid scientific background that becomes the foundation for applied laboratory skills
- Extensive laboratory work with state-of-the-art technologies to foster the development of independent laboratory skills
- Familiarity with reading, understanding, and discussing research papers in molecular biosciences through participation in the molecular biosciences seminars
- Exposure to project management and general business skills for laboratory settings
- Coursework on the regulatory and legal environments within which the molecular biosciences operate
- Preparation for immediate employment through a capstone project in a laboratory setting

### ENTRY REQUIREMENTS

Individuals must have:

- Associate's degree in Biotechnology, Molecular Sciences Technician, General Science Technician, or equivalent degree with a minimum cumulative GPA of 2.7. Math and Science transfer degree students may also be eligible
- Demonstrated completion of the following courses or their equivalent:
  - College Level Math: Statistics (MATH 130)
  - Calculus I & II (MATH& 151 and 152)
  - English Composition (ENGL& 101)
  - Technical Writing (ENGL& 235)
  - General Chemistry sequence (CHEM& 161/162/163)
  - Introduction to Instrumental Analysis (CHEM 275)
  - General Biology or Biology Majors Cellular (BIOL& 160 or BIOL& 211)
  - Laboratory Methods in Genomics (BIOL 275)

- Two Science electives as listed in the AAS-T Molecular Sciences Technician science electives [www.bellevuecollege.edu/programs/degrees/proftech/applied/](http://www.bellevuecollege.edu/programs/degrees/proftech/applied/)
- Presentation Design and Delivery (BTS 147)
- Communication Studies (CMST 250 or 280)
- Humanities course from the AAS-DTA list
- Social Science course from the AAS-DTA list

### DEGREE REQUIREMENTS

Completion of all required courses as shown in the worksheet. In addition to eligibility requirements, students must also achieve the following:

- Complete 90-100 quarter credits in the program with a cumulative GPA of 2.5 and minimum GPA of 2.0 for each individual core course (including transferred credits) in all mandatory program courses
- At least 45 quarter credits for the degree must be completed in residence at Bellevue College, of which 30 credits must be upper division.
- Courses may be subject to minimum grade requirements and prerequisites. Check online at [www.bellevuecollege.edu/classes/all/](http://www.bellevuecollege.edu/classes/all/).

### APPLICATION PROCESS

To be considered for the Bachelor of Applied Science in Molecular Biosciences, prospective students must submit the following:

- Completed general Bellevue College admission form
- Non-refundable general admission fee of \$34
- Completed Bachelor of Applied Science in Molecular Biosciences application form
- Nonrefundable application fee of \$75
- Official transcripts from regionally accredited college(s), demonstrating completion of an appropriate associates degree or equivalent credits, and the prerequisite courses, with a GPA of 2.7 or higher

### TUITION

The Bachelor of Applied Science in Molecular Biosciences is a self-support program and therefore does not necessarily follow the upper division tuition schedule published in the college catalog and quarterly schedule. Tuition includes applicable college and course fees, plus current per credit rates published online at [www.bellevuecollege.edu/enrollment/tuition/](http://www.bellevuecollege.edu/enrollment/tuition/).

These courses are not eligible for tuition waivers.

### FOR MOST UP-TO-DATE INFORMATION, GO TO:

[www.bellevuecollege.edu/programs/degrees/bachelor/mb](http://www.bellevuecollege.edu/programs/degrees/bachelor/mb)