BIOCHEMISTRY AND MOLECULAR BIOLOGY, B.S. (SCIENCE)

Begin Campus: Any Penn State Campus
End Campus: University Park

Program Description
Students in this major apply basic principles of chemistry and physics to the study of living cells and their components to explain biology at molecular, genetic, and cellular levels. Students will develop a strong foundation in quantitative and analytical biological sciences, including molecular biology, biochemistry, enzymology, metabolism, cell biology, and molecular genetics.

Biochemistry Option
Available at the following campuses: Berks, University Park

The Biochemistry Option is offered for students who have interests in the structures, properties and functions of macromolecules, and in the quantitative and analytical techniques used to characterize these macromolecules.

Molecular and Cell Biology Option
Available at the following campuses: Berks, University Park

The Molecular and Cell Biology Option is available to students whose interests relate to the growth, reproduction and differentiation of cells and to signaling processes that occur in multicellular systems that activate and modulate these processes. The curriculum is designed to prepare students for advanced study leading to careers in research, medicine, and education, or to secure employment in biotechnology and health-related industries, including government, academic, and private laboratories.

What is Biochemistry and Molecular Biology?
Biochemistry and Molecular Biology is the study of the molecular basis of life. Biochemistry uses the principles of chemistry and physics to understand biological molecules, structures, and reactions. Molecular biology focuses on how biological molecules interact to form cells, organisms, and behaviors.

You Might Like This Program If...
• You like learning by doing experiments.
• You want to know how life works at the most fundamental level.
• You are interested in understanding the molecular basis of health, disease, and behavior.
• You want to learn how molecules can be manipulated to address global challenges such as disease, famine, and energy needs.

Entrance to Major
In order to be eligible for entrance to the Biochemistry and Molecular Biology major, a student must have:

1. attained at least a 2.00 cumulative grade-point average, and
2. completed CHEM 110, CHEM 111, CHEM 112, and MATH 140; and
3. earned a grade of C or better in each of these courses.

Degree Requirements
For the Bachelor of Science degree in Biochemistry and Molecular Biology, a minimum of 125 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>95</td>
</tr>
</tbody>
</table>

15 of the 45 credits for General Education are included in the Requirements for the Major. This: 9 credits of GN courses; 6 credits of GQ courses.

General Education
Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements of a program. For additional information, see the General Education Requirements (http://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

Foundations (grade of C or better is required.)
• Quantification (GQ): 6 credits
• Writing and Speaking (GWS): 9 credits

Knowledge Domains
• Arts (GA): 6 credits
• Health and Wellness (GHW): 3 credits
• Humanities (GH): 6 credits
• Social and Behavioral Sciences (GS): 6 credits
• Natural Sciences (GN): 9 credits

Integrative Studies (may also complete a Knowledge Domain requirement)
• Inter-Domain or Approved Linked Courses: 6 credits

University Degree Requirements
First Year Engagement
All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.
**Cultures Requirement**

6 credits are required and may satisfy other requirements

- United States Cultures: 3 credits
- International Cultures: 3 credits

**Writing Across the Curriculum**

3 credits required from the college of graduation and likely prescribed as part of major requirements.

**Total Minimum Credits**

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Quality of Work**

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

**Limitations on Source and Time for Credit Acquisition**

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80). For more information, check the Suggested Academic Plan for your intended program.

**Requirements for the Major**

To graduate, a grade of C or better is required in 9 credits of any BMB or MICRB 400-level course except:

- BIOL 322 Genetic Analysis
- BMB 422
- BMB 445W
- MICRB 400-level course

To graduate, a grade of C or better is required in 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80). For more information, check the Suggested Academic Plan for your intended program.

**Requirements for the Option**

Select an option

1. To graduate, a grade of C or better is required in two of the following courses: MICRB 201, BMB 251/MICRB 251, and/or BMB 252/MICRB 252.

**Biochemistry Option (40 credits)**

**Prescribed Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMB 474</td>
<td>Analytical Biochemistry</td>
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</tr>
<tr>
<td>CHEM 450</td>
<td>Physical Chemistry - Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 452</td>
<td>Physical Chemistry - Quantum Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>General Physics: Electricity and Magnetism</td>
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<tr>
<td>PHYS 213</td>
<td>General Physics: Fluids and Thermal Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 214</td>
<td>General Physics: Wave Motion and Quantum Physics</td>
<td>2</td>
</tr>
</tbody>
</table>

**Supporting Courses and Related Areas**

Select 7-9 credits from any 400-level BMB/CHEM/MICRB course or from department list D (additional 400-level courses) ¹

Select 2-3 credits in the mathematical sciences from department list B

Select 7-10 credits from department list C

¹ With a maximum of 3 credits in BMB 408 and/or MICRB 408 and a maximum of 4 credits in BMB 488 and/or BMB 496.

**Molecular and Cell Biology Option (40 credits)**

**Prescribed Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>BMB 430</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BMB 460</td>
<td>Cell Growth and Differentiation</td>
<td>3</td>
</tr>
<tr>
<td>MICRB 410</td>
<td>Principles of Immunology</td>
<td>3</td>
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</tbody>
</table>

**Additional Courses**

Select 8 credits of the following:

- PHYS 211 General Physics: Mechanics
- & PHYS 212 and General Physics: Electricity and Magnetism
- PHYS 250 Introductory Physics I
- & PHYS 251 and Introductory Physics II

Select 3-6 credits of the following:

1. With a maximum of 3 credits in BMB 408 and/or MICRB 408 and a maximum of 4 credits in BMB 488 and/or BMB 496.
BMB 428  Physical Chemistry with Biological Applications

CHEM 450  Physical Chemistry - Thermodynamics
& CHEM 452  and Physical Chemistry - Quantum Chemistry

**Supporting Courses and Related Areas**

Select 5-6 credits from any 400-level BMB/MICRB course or from department list D (additional 400-level courses)

Select 2-3 credits in the mathematical sciences from department list B

Select 8-13 credits from department list C

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1 With a total maximum of 3 credits in BMB 408 and/or MICRB 408 and a maximum of 4 credits in BMB 488 and/or BMB 496.

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**Academic Advising**

The objectives of the university’s academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee’s unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

**University Park**

Jennifer Keefer
Academic Adviser
239 Ritenour Building
University Park, PA
814-863-5487
jls227@psu.edu

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**Bucks**

Maureen Dunbar
Program Coordinator, Associate Professor
Luerssen 101H
Reading, PA 19610
640-396-6328
med18@psu.edu

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**Suggested Academic Plan**

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2019-20 academic year. To access previous years’ suggested academic plans, please visit the archive (http://bulletins.psu.edu/undergraduate/archive) to view the the appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

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**Biochemistry and Molecular Biology - Biochemistry Option - University Park Campus**

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

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### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PSU 16</td>
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<td>1 MICRB 201†</td>
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<tr>
<td>CHEM 110**†</td>
<td>3 MICRB 202 or 203 (consult with an academic adviser for options)</td>
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<td>CHEM 111**†</td>
<td>1 CHEM 112**†</td>
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<tr>
<td>MATH 140 or 140B**†</td>
<td>4 CHEM 113†</td>
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<td>ENGL 15, 30, or ESL 15‡</td>
<td>3 MATH 141 or 141B‡†</td>
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<td>General Education Course</td>
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### Second Year

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<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMB 251†</td>
<td>3 BMB 252†</td>
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<td>CHEM 210</td>
<td>3 CHEM 212</td>
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<td>PHYS 211‡</td>
<td>4 CHEM 213</td>
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<td>General Education Course</td>
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### Third Year

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<th>Spring</th>
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<tbody>
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<td>2 BMB 402²</td>
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<td>BMB 401²</td>
<td>3 BMB 445W or 443W³</td>
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<tr>
<td>BMB 442</td>
<td>3 BMB, CHEM, or MICRB 400-Level Selections (consult with an academic adviser for options)²</td>
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<tr>
<td>MATH 231 (consult with an academic adviser for options)</td>
<td>2 General Education Course</td>
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<tr>
<td>PHYS 213</td>
<td>2 General Education Course(GHW)</td>
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<td>PHYS 214</td>
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### Fourth Year

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<td>BMB 443W, 445W, or 448³</td>
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<tr>
<td>BMB, CHEM, or MICRB 400-Level Selections (consult with an academic adviser for options)²</td>
<td>3 BMB, CHEM, or MICRB 400-Level Selections (consult with an academic adviser for options)²</td>
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<td></td>
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<tr>
<td>CHEM 450</td>
<td>3 CHEM 452</td>
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</table>
Department List C
Selection(consult with an academic adviser for options)  
3 ENGL 202C, 202A, 202B, or 202D†  
3

General Education Course  
3 Department List C (consult with an academic adviser for options)

General Education Course (GHW)  
1.5 General Education Course  
3

Total Credits 125

* Course requires a grade of C or better for the major
† Course requires a grade of C or better for General Education
# Course is an Entrance to Major requirement
‡ Course satisfies General Education and degree requirement

University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of ‘C’ or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

1 To graduate, a grade of C or better is required in two of the following courses: Introductory Microbiology (MICRB 201), Molecular and Cell Biology I (BMB 251)/Molecular and Cell Biology I (MICRB 251), and/or Molecular and Cell Biology II (BMB 252)/Molecular and Cell Biology II (MICRB 252).

2 To graduate, a grade of C or better is required in 9 credits of any BMB or MICRB 400-level course except those listed in the requirements for the major (consult with an academic adviser for clarification).

3 In order to complete degree requirements students may choose to take BMB 448 or BMB 445W. In addition, students must also take BMB 443W.

Biochemistry and Molecular Biology - Molecular and Cell Biology Option - University Park Campus

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

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<td>MICRB 201†</td>
<td>3</td>
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<tr>
<td>CHEM 110**†</td>
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<td>MICRB 202 or 203 (Consult with an academic adviser for options)</td>
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<td>CHEM 111**†</td>
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<td>CHEM 112**†</td>
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<td>MATH 140 or 140B***†</td>
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<td>CHEM 113†</td>
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<td>ENGL 15, ESL 15, or ENGL 30‡</td>
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<td>MATH 141 or 140B†</td>
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<td>General Education†</td>
<td>3</td>
<td>CAS 100A, 100B, or 100C‡</td>
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<tbody>
<tr>
<td>BMB 251†</td>
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<td>CHEM 210</td>
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<td>PHYS 251 (Consult with an academic adviser for alternative options)</td>
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Third Year

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<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
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<tbody>
<tr>
<td>BMB 400²</td>
<td>2</td>
<td>BMB 402²</td>
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<td>BMB 460²</td>
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<td>BMB 442</td>
<td>3</td>
<td>BMB 443W or 445W³</td>
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<td>MICRB 410²</td>
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<td>General Education Course</td>
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Fourth Year

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<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMB 428²</td>
<td>3</td>
<td>BMB or MICRB 400-Level Selection (Consult with an academic adviser for options)²</td>
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<tr>
<td>BMB 430²</td>
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<td>ENGL 202C, 202A, 202B, or 202D†</td>
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<td>BMB or MICRB 400-Level Selection (Consult with an academic adviser for options)²</td>
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<td>Department List C (consult with an academic adviser for options)</td>
<td>7</td>
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<tr>
<td>BMB 448, 445W, or 443W³</td>
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<td>General Education Course</td>
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Biochemistry and Molecular Biology, B.S. (Science)

Department List C (consult with an academic adviser for options)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
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2 To graduate, a grade of C or better is required in 9 credits of any BMB or MICRB 400-level course except those listed in the requirements for the major (consult with an academic adviser for clarification).

3 In order to complete degree requirements students may choose to take BMB 448 or BMB 445W. In addition, students must also take BMB 443W.

Career Paths

Penn State students with a B.S. in Biochemistry & Molecular Biology are prepared for jobs in industry as well as government, medical, and university research laboratories. Many students also decide to continue their studies by attending graduate programs or professional schools including medical, dental, business, and law school.

Careers

A B.S. in Biochemistry and Molecular Biology prepares students for a wide variety of careers, including health related professions, professions in academia, government, and industry. Examples of biochemistry related careers are:

- Agricultural Scientist
- Biological / Media Illustrator
- Biomedical Researcher
- Drug Development
- Genetic Counselor
- Genetic Engineer
- Health Professions – e.g. Dentist, Optometrist, Pharmacist, Physician, Physician Assistant
- Industry Scientist
- Pharmaceutical Sales
- Pharmaceutical Sciences
- Professor
- Science Policy Expert
- Optometrist
- Science Writer / Editor
- Patent Attorney
- Research Technician

More information about potential career options for graduates of the Biochemistry and Molecular Biology Program (http://www.asbmb.org/careers/paths)

Opportunities for Graduate Study

Many Penn State students with a BS in Biochemistry and Molecular Biology will pursue graduate education in biochemistry or other related disciplines (biology, bioinformatics, chemistry, genomics, immunology, neurobiology, toxicology, pharmacology, and others). A B.S. in Biochemistry and Molecular Biology also prepares students to pursue higher degrees in the health professions. Opportunities for graduate studies include, but are not limited to, the following:

- Graduate Studies (M.S. or Ph.D.)
- Dental School Medical School (MD or DO)
- Optometry School, Pharmacy School
- Physical Therapy School
- Veterinary School.

In addition, graduates with a BMB degree may decide to pursue further education in law or business.

Professional Resources

- American Society for Biochemistry and Molecular Biology (https://www.asbmb.org)

Accreditation

The B.S. in Biochemistry and Molecular Biology is accredited by the American Society for Biochemistry and Molecular Biology (ASBMB).

More information about accreditation by the American Society of Biochemistry and Molecular Biology (http://www.asbmb.org/accreditation)

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