Science, B.S. (Altoona)

Begin Campus: Any Penn State Campus
End Campus: Altoona

Program Description

Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

The Science major is an interdisciplinary degree that aims to provide a broad, general education in science. The bachelor of science (B.S.) curriculum is designed specifically for students who have education goals relating to scientific theory and practice and who require a high degree of flexibility to obtain their educational objectives. After completing foundation courses in calculus, chemistry, physics, and the life sciences, students will select additional science courses from designated areas. A large number of supporting credits permit students to readily include significant breadth or specialization into their undergraduate curriculum. Some examples include minors in business, computer and information science, education, kinesiology, or other fields. The degree allows students throughout the Commonwealth to become familiar with both the theory and the practice of science. It can help prepare students for various careers in pharmaceutical, biotechnical, chemical, medical, and agricultural industries. The degree can also be tailored to meet the specific requirements of professional programs such as medical, dental, or pharmacy schools.

The Science major is an interdisciplinary degree that aims to provide a broad, general education in science. The bachelor of science (B.S.) curriculum is designed specifically for students who have education goals relating to scientific theory and practice and who require a high degree of flexibility to obtain their educational objectives. After completing foundation courses in calculus, chemistry, physics, and the life sciences, students will select additional science courses from designated areas. A large number of supporting credits permit students to readily include significant breadth or specialization into their undergraduate curriculum. Some examples include minors in business, computer and information science, education, kinesiology, or other fields. The degree allows students throughout the Commonwealth to become familiar with both the theory and the practice of science. It can help prepare students for various careers in pharmaceutical, biotechnical, chemical, medical, and agricultural industries. The degree can also be tailored to meet the specific requirements of professional programs such as medical, dental, or pharmacy schools.

General Science Option

Available at the following campuses: Altoona, Berks, Harrisburg, Scranton, University Park, York

The General Science option of the B.S. Science degree allows for the most flexibility.

Achievement in a more specialized set of goals can be met by selecting one of the other B.S. options offered:

Biological Sciences and Health Professions Option

Available at the following campuses: University Park

Legal Studies, Government Service, Public Policy Option

Available at the following campuses: University Park

Life Sciences Option

Available at the following campuses: Altoona, Berks, Harrisburg, Scranton, University Park, York

Mathematical Sciences Option

Available at the following campuses: Altoona

Physical Sciences Option

Available at the following campuses: Altoona

Not all of these options are available at all locations, and there are minor distinctions of the core curriculum at some locations, so see the Science program director at your College for further details.

Two-Year Preprofessional Preparation

The first two years of the Science major (62 credits) can meet the preprofessional needs of those interested in admission to some schools of pharmacy, physical therapy, optometry, nursing, and physician assistant training. Successful students can then transfer after two years of undergraduate study to the professional school to which they are admitted. Note, however, that no Penn State degree can be awarded after only two years (62 credits) of study in the Science major. Also, note that the abbreviated two-year curriculum alone does not prepare students for admission to professional schools of general medicine, veterinary medicine, or dental medicine. Consult with your college’s health sciences professional adviser for additional information.

What is Science?

The Science major provides a broad and interdisciplinary foundation in the natural sciences. The Science BS program uses the principles of chemistry, physics, and life sciences to understand how these integrate over general areas including biological sciences and health professions, public policy, and science research and development.

You Might Like This Program If...

• You like learning by doing hands-on experiments.
• You are curious about the natural world and how science disciplines come together to explore and understand it.
• You are intrigued by science and desire a career in current and emerging interdisciplinary science disciplines, health professions, or melding science with law, policy or business.

Entrance to Major

In order to be eligible for entrance to the Science major, a student at any location must have:

1. attained at least a 2.00 cumulative grade-point average;
2. completed MATH 140 with a grade of C or better;
3. completed at least two of the following courses, BIOL 110; CHEM 110; PHYS 211 or PHYS 250, with a grade of C or better.
Degree Requirements

For the Bachelor of Science degree in Science, a minimum of 124 credits is required, with at least 15 credits at the 400 level:

<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>94</td>
</tr>
</tbody>
</table>

15 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 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 adviser 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 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80)). For more information, check the Suggested Academic Plan for your intended program.

Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44).

Common Requirements for the Major (All Options)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>Experimental Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>Chemical Principles II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 113</td>
<td>Experimental Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 110</td>
<td>Biology: Basic Concepts and Biodiversity</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Chemical Principles I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus With Analytic Geometry I</td>
<td>4</td>
</tr>
</tbody>
</table>

Requirements for the Option

Select an option 74

Requirements for the Option

General Science Option (74 credits)

Available at the following campuses: Altoona, Berks, Harrisburg, Scranton, University Park, York

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 129</td>
<td>Mammalian Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 141</td>
<td>Introductory Physiology</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL 142</td>
<td>and Physiology Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods

Biology: Molecules and Cells

Supporting Courses and Related Areas
A maximum of 12 credits of Independent Study (296, 496) may be applied toward credits for graduation.
Select 3 credits from earth and mineral sciences
Select 3 credits from Global, Social, and Personal Awareness
Select 3 credits from Teamwork and Interpersonal Communication
Select 6 credits of 400-level courses
Select 18 credits in life, mathematical, or physical sciences, with at least 9 credits at the 400 level

Biology and Physiology Laboratory
Introductory Biology
Genetics

Additional Courses
Select 4 credits of the following:
BIOL 129 Mammalian Anatomy
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
BIOL 141 Introductory Physiology
& BIOL 142 and Physiology Laboratory
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Chemistry: Molecules and Cells

Legal Studies, Government Service, Public Policy Option (74 credits)
Available at the following campuses: University Park

Chemistry: Molecules and Cells

Molecular and Cell Biology I
Introductory Physics I
Introductory Physics II

Additional Courses
Select 4 credits of the following:
BIOL 129 Mammalian Anatomy
BIOL 141 Introductory Physiology
& BIOL 142 and Physiology Laboratory
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Supporting Courses and Related Areas
A maximum of 12 credits of Independent Study (296, 496) may be applied toward credits for graduation.
Select 15 credits from program list for Healthcare/ Medicine/Ethical Competencies
Select 10-17 credits from program list
Select 3 credits from Global, Social, and Personal Awareness
Select 3 credits from Teamwork and Interpersonal Communication
Select 9 credits of 400-level BMB, BIOL, BIOTC, or MICRB courses

Elementary Mathematics

Additional Courses
Select 4 credits of the following:
BIOL 129 Mammalian Anatomy
BIOL 141 Introductory Physiology
& BIOL 142 and Physiology Laboratory
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Electrical Engineering

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Material Science

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Oceanography

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Environmental Science

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Mathematics

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Management

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Humanities

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Economics

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Psychology

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Politics

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Sociology

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Environmental Studies

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

International Studies

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:

Urban Studies

Additional Courses
Select 3 credits of the following:
BIOL 220W Biology: Populations and Communities
BIOL 230W Biology: Molecules and Cells
BIOL 240W Biology: Function and Development of Organisms
Select 3-4 credits of the following:
STAT 200 Elementary Statistics
STAT 250 Introduction to Biostatistics
STAT 301 Statistical Analysis I
STAT 401 Experimental Methods
Select 8-12 credits of the following:
Available at the following campuses: Altoona, Berks, Harrisburg, Scranton, University Park, York

**Additional Courses**

Select 4 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 220W</td>
<td>Biology: Populations and Communities</td>
<td></td>
</tr>
<tr>
<td>BIOL 230W</td>
<td>Biology: Molecules and Cells</td>
<td></td>
</tr>
<tr>
<td>BIOL 240W</td>
<td>Biology: Function and Development of Organisms</td>
<td></td>
</tr>
</tbody>
</table>

Select 3 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 101</td>
<td>Introduction to C++ Programming</td>
<td></td>
</tr>
<tr>
<td>MATH 250</td>
<td>Ordinary Differential Equations</td>
<td></td>
</tr>
<tr>
<td>STAT 250</td>
<td>Introduction to Biostatistics</td>
<td></td>
</tr>
</tbody>
</table>

Select 3 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMB 211</td>
<td>Elementary Biochemistry</td>
<td></td>
</tr>
<tr>
<td>BMB 251</td>
<td>Molecular and Cell Biology I</td>
<td></td>
</tr>
<tr>
<td>MICRB 201</td>
<td>Introductory Microbiology</td>
<td></td>
</tr>
</tbody>
</table>

Select 6-8 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 202</td>
<td>Fundamentals of Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 203</td>
<td>and Fundamentals of Organic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>CHEM 210</td>
<td>Organic Chemistry I</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 212</td>
<td>and Organic Chemistry II</td>
<td></td>
</tr>
<tr>
<td>&amp; CHEM 213</td>
<td>and Laboratory in Organic Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

Select 8-12 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 211</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 212</td>
<td>and General Physics: Electricity and Magnetism</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 213</td>
<td>and General Physics: Fluids and Thermal Physics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 214</td>
<td>and General Physics: Wave Motion and Quantum Physics</td>
<td>1</td>
</tr>
</tbody>
</table>

**Supporting Courses and Related Areas**

Select 8-12 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 250</td>
<td>Introductory Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 251</td>
<td>and Introductory Physics II</td>
<td></td>
</tr>
</tbody>
</table>

**Mathematical Science Option (74 credits)**

*Available at the following campuses: Altoona, Berks, Harrisburg, Scranton, University Park, York*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 122</td>
<td>Intermediate Programming</td>
<td></td>
</tr>
<tr>
<td>MATH 220</td>
<td>Matrices</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Courses**

Select 3 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMPSC 360</td>
<td>Discrete Mathematics for Computer Science</td>
<td></td>
</tr>
<tr>
<td>or MATH 311W</td>
<td>Concepts of Discrete Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 230</td>
<td>Calculus and Vector Analysis</td>
<td></td>
</tr>
<tr>
<td>or MATH 251</td>
<td>Ordinary and Partial Differential Equations</td>
<td></td>
</tr>
</tbody>
</table>

Select 3 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 301</td>
<td>Statistical Analysis I</td>
<td></td>
</tr>
<tr>
<td>or STAT 318</td>
<td>Elementary Probability</td>
<td></td>
</tr>
</tbody>
</table>

Select 8-12 credits of the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 211</td>
<td>General Physics: Mechanics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 212</td>
<td>and General Physics: Electricity and Magnetism</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 213</td>
<td>and General Physics: Fluids and Thermal Physics</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 214</td>
<td>and General Physics: Wave Motion and Quantum Physics</td>
<td>1</td>
</tr>
</tbody>
</table>

**Supporting Courses and Related Areas**

Select 6 credits of 400-level courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 250</td>
<td>Introductory Physics I</td>
<td></td>
</tr>
<tr>
<td>&amp; PHY 251</td>
<td>and Introductory Physics II</td>
<td></td>
</tr>
</tbody>
</table>
Select 3 credits in Teamwork and Interpersonal Communication 3

Supporting Courses and Related Areas: Require a grade of C or better

Select 9 credits of 400-level CMPSC, CSE, MATH, or STAT courses 9

1 PHYS 211 and PHYS 250 require a grade of C or better.

Physical Science Option (74 credits)
Available at the following campuses: Altoona

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prescribed Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTRO 291</td>
<td>Astronomical Methods and the Solar System</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>General Physics: Electricity and Magnetism</td>
<td>4</td>
</tr>
<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>
<tr>
<td>Prescribed Courses: Require a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics: Mechanics</td>
<td>4</td>
</tr>
<tr>
<td>Additional Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 3 credits of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BMB 211</td>
<td>Elementary Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BMB 251</td>
<td>Molecular and Cell Biology I</td>
<td>2</td>
</tr>
<tr>
<td>MICRB 201</td>
<td>Introductory Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>Select 6-8 credits of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 202</td>
<td>Fundamentals of Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 203</td>
<td>and Fundamentals of Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 210</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 212</td>
<td>and Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 213</td>
<td>and Laboratory in Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 230</td>
<td>Calculus and Vector Analysis</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 251</td>
<td>Ordinary and Partial Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Select 3 credits of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTRO 292</td>
<td>Astronomy of the Distant Universe</td>
<td>3</td>
</tr>
<tr>
<td>EMCH 211</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>ME 300</td>
<td>Engineering Thermodynamics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 237</td>
<td>Introduction to Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Courses and Related Areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A maximum of 12 credits of Independent Study (296, 496) may be applied toward credits for graduation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 20-22 credits from program list (Students may apply 6 credits of ROTC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 6 credits of 400-level courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Global, Social, and Personal Awareness</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select 3 credits in Teamwork and Interpersonal Communication</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Supporting Courses and Related Areas: Require a grade of C or better</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 9 credits of 400-level ASTRO, CHEM, or PHYS courses</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Accelerated Science B.S./M.B.A. Program (SCBUS_BS)

Students must begin and complete the Accelerated Science B.S./M.B.A. Program at the University Park campus.

Students admitted to this special cooperative program between the Eberly College of Science and The Smeal College of Business will be able to combine a Bachelor of Science degree in the Science major, with a Master of Business Administration degree. Highly motivated students, who enter the University with a sufficient number and proper distribution of AP credits, will have the opportunity to complete the requirements for both programs within five years.

What is the Accelerated Science B.S./M.B.A. Program?
The Accelerated Science B.S./M.B.A. Program is designed to educate the leaders in scientific industry, by providing students with a rigorous science background and undergraduate degree along with a graduate degree in business administration.

You Might Like This Program If...
- You love studying science, but don't necessarily want a career in a laboratory.
- You enjoy coursework in multiple science disciplines and in business.
- You aspire to leadership roles.
- You enjoy working with others on a daily basis.
- You want the opportunity to move into a leadership role early in your career.

Program Requirements
The B.S. degree in the Science major General Science option, will be conferred upon satisfactory completion of:

1. The first semester of course work in The Smeal College of Business M.B.A. program (i.e., a minimum of 12 graduate credits).
2. A minimum of 112 acceptable undergraduate credits, which must include:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen. Ed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 24 credits</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Additional Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete the University's First-Year Seminar, United States Cultures, International Cultures, and Writing Across the Curriculum requirements</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>BIOL 110</td>
<td>Biology: Basic Concepts and Biodiversity</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 110</td>
<td>Chemical Principles I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111</td>
<td>Experimental Chemistry I</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>Chemical Principles II</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 113</td>
<td>Experimental Chemistry II</td>
<td>1</td>
</tr>
<tr>
<td>CMPSC 203</td>
<td>Introduction to Spreadsheets and Databases</td>
<td>4</td>
</tr>
<tr>
<td>MATH 140</td>
<td>Calculus With Analytic Geometry I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
<tr>
<td>Select 3-4 credits of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 250</td>
<td>Introduction to Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>STAT 301</td>
<td>Statistical Analysis I</td>
<td>3</td>
</tr>
<tr>
<td>STAT 401</td>
<td>Experimental Methods</td>
<td>3</td>
</tr>
<tr>
<td>Select 8-12 credits from either Set A or Set B:</td>
<td>8-12</td>
<td></td>
</tr>
<tr>
<td>PHYS 211</td>
<td>General Physics: Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 212</td>
<td>General Physics: Electricity and Magnetism</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 213</td>
<td>General Physics: Fluids and Thermal Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 214</td>
<td>General Physics: Wave Motion and Quantum Physics</td>
<td>3</td>
</tr>
</tbody>
</table>
Set B:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 250</td>
<td>Introductory Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 251</td>
<td>Introductory Physics II</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 life science credits of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMB 211</td>
<td>Elementary Biochemistry</td>
</tr>
<tr>
<td>BMB 251</td>
<td>Molecular and Cell Biology I</td>
</tr>
<tr>
<td>MICRB 201</td>
<td>Introductory Microbiology</td>
</tr>
</tbody>
</table>

Select 14 additional credits of course work from the Eberly College of Science, with at least 9 credits at the 400 level.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC 295</td>
<td>Science Co-op Work Experience I</td>
<td>1-3</td>
</tr>
<tr>
<td>SC 395</td>
<td>Science Co-op Work Experience II</td>
<td>1-3</td>
</tr>
<tr>
<td>SC 495</td>
<td>Science Co-op Work Experience III</td>
<td>1-3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ACCTG 211</td>
<td>Financial and Managerial Accounting for Decision Making</td>
<td>4</td>
</tr>
</tbody>
</table>

Select supporting courses and related areas selected from the program list

1. The University's General Education requirements in the areas of Writing and Speaking (9), Health and Physical Activity (3), Arts (6), Humanities (6). The University's General Education requirements in the areas of Quantification, Natural Sciences, and Social and Behavioral Sciences will be satisfied by course work listed under headings "3" and "6."

2. These requirements may be double counted in order to satisfy other requirements in the program.

3. Course requires a grade of C or better.

4. Only the 9 credits at the 400 level require a grade of C or better.

5. Students must complete three Eberly College of Science Cooperative Education experiences, including at least one experience which is a full semester in length.

Career Paths

Graduates with a B.S. in Science and a Master's degree in Business Administration have successfully established careers in the science and business industries. Graduates of this unique integrated undergraduate-graduate program (IUG) are equipped to step into leadership roles instead of the more common entry-level positions of their peers. This accelerates the careers of our graduates, which leads to greater impact and higher earning potential over a lifetime.

Careers

Graduates of the B.S./M.B.A. program have pursued careers in a number of industries including, but not limited to the following:

- Consulting
- Finance
- Healthcare
- Manufacturing
- Marketing
- Medical Devices
- Pharmaceuticals
- Technology

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE ACCELERATED SCIENCE B.S./M.B.A. PROGRAM (http://science.psu.edu/bsmba/program-information/potential-employers)

Opportunities for Graduate Studies

For more information on the M.B.A curriculum, please visit the Smeal College of Business website (https://mba.smeal.psu.edu).

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.

READ SENATE POLICY 32-00: ADVISING POLICY (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

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amv12@psu.edu

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 appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

General Option at Altoona 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.

First Year
<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 15 or 30(GWS)</td>
<td>3</td>
<td>MATH 141 (GQ)†</td>
<td>4</td>
</tr>
<tr>
<td>MATH 140(GQ) **</td>
<td>4</td>
<td>CAS 100‡</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 110(GN) †</td>
<td>4</td>
<td>CHEM 112 (GN)**</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 110(GN) **</td>
<td>3</td>
<td>CHEM 113 (GN)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 111(GN) †</td>
<td>1</td>
<td>General Education Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year
<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 211 or 250*</td>
<td>4</td>
<td>PHYS 212 or 251</td>
<td>4</td>
</tr>
<tr>
<td>Earth and Mineral Sciences Course</td>
<td>3</td>
<td>MICRB 201</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 201, MATH 230, MATH 250, or STAT 200</td>
<td>3</td>
<td>ENGL 202C‡</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Year
<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elective or PHYS 213 or PHYS 214</td>
<td>3 or 4</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>Writing Across the Curriculum Elective</td>
<td>3</td>
<td>Science Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>Supporting Course</td>
<td>3</td>
</tr>
<tr>
<td>Science Elective</td>
<td>3</td>
<td>Supporting Course</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Course</td>
<td>3</td>
<td>400-level Science Course*</td>
<td>3</td>
</tr>
</tbody>
</table>

Fourth Year
<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-level Science Course*</td>
<td>3</td>
<td>400-level Science Course*</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Course</td>
<td>3</td>
<td>Supporting Course</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Course</td>
<td>3</td>
<td>Supporting Course</td>
<td>3</td>
</tr>
<tr>
<td>World Language Course Level 1</td>
<td>4</td>
<td>World Language Course Level 2</td>
<td>4</td>
</tr>
<tr>
<td>400-level Science Course*</td>
<td>3</td>
<td>400-level Science Course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credits 126-128

* 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.

**Math Option at Altoona 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.

**First Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 140(GQ) †</td>
<td>4</td>
<td>MATH 141 (GQ) †</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 110(GN) †</td>
<td>3</td>
<td>CHEM 112 (GN) †</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 111(GN) †</td>
<td>1</td>
<td>CHEM 113 (GN)</td>
<td>1</td>
</tr>
<tr>
<td>World Language Course Level 1</td>
<td>4</td>
<td>World Language Course Level 2</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 15, 30, or ESL 15 †</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>General Education Health &amp; Wellness(GHW)</td>
<td>1.5</td>
</tr>
</tbody>
</table>

| Total Credits | 16.5 |

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>2-3</td>
<td>MATH 311W</td>
<td>3</td>
</tr>
<tr>
<td>MATH 230 or 251</td>
<td>4</td>
<td>BMB 211, 251, or MICRB 201</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 110</td>
<td>4</td>
<td>CMPSC 121, 201, or 202</td>
<td>3</td>
</tr>
<tr>
<td>CMPSC 121, 201, or 202</td>
<td>3</td>
<td>ENGL 202C †</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>Supporting Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>16-17</td>
<td>General Education Health and Wellness(GHW)</td>
<td>1.5</td>
</tr>
</tbody>
</table>

| Total Credits | 16.5 |

**Third Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 400-level Course</td>
<td>3</td>
<td>MATH 414</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 211 or 250</td>
<td>4</td>
<td>PHYS 212 or 251</td>
<td>4</td>
</tr>
<tr>
<td>CAS 100 †</td>
<td>3</td>
<td>Supporting Course</td>
<td>3 or 4</td>
</tr>
<tr>
<td>Supporting Course</td>
<td>3 or 4</td>
<td>Supporting Course</td>
<td>3 or 4</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits | 16-17 | 16-18 |

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 400-level Course</td>
<td>3</td>
<td>Mathematics 400-level Course</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 400-level Course</td>
<td>3</td>
<td>Mathematics 400-level Course</td>
<td>3</td>
</tr>
<tr>
<td>Supporting Course</td>
<td>3 or 4</td>
<td>Supporting Course</td>
<td>3 or 4</td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
</tbody>
</table>

| PHYS 213 or 214 | 2 |

| Total Credits | 14-15 | 12:13 |

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

**Career Paths**

Penn State students with a BS in Science are prepared for a broad range of careers and graduate programs. The solid foundation of science and math prepares students to think critically and scientifically in a range of industries and professions.

**Careers**

This program often leads to careers in all healthcare professions, including physicians and physician assistants, dentists, optometrists, and podiatrists; laboratory research associates; scientific product representatives and science-based consulting.

**Opportunities for Graduate Studies**

Many graduates of the Science B.S. program choose to pursue graduate studies (MS and PhD) in the natural sciences. Most often, students gravitate to medically-related fields and life science sub-disciplines for focused graduate training. Students in the legal studies and public policy options may choose law school or master’s in public policy programs.

**Professional Resources**

- Association of American Medical Colleges (https://www.aamc.org)
- American Association of Colleges of Osteopathic Medicine (https://www.aacom.org)
- American Dental Education Association (http://www.adea.org)
- Association of Schools and Colleges of Optometry (https://optometriseducation.org)
- American Association of Colleges of Podiatric Medicine (http://www.aacpm.org)
• American Academy of Physician Assistants (AAPA) (https://www.aapa.org) Physician Assistant Education Association (http://paeonline.org)

Contact
Altoona
DIVISION OF MATHEMATICS AND NATURAL SCIENCES
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