Physics Major with Business Concentration - Bachelor of Science (BS)

Major requirements

(All colleges, excluding teacher certification programs)

55 credits (64 total credits including MTH)

A minimum of 28 credits in physics including the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 103</td>
<td>Fundamental Physics I</td>
<td>4</td>
</tr>
<tr>
<td>or PHY 203</td>
<td>General Physics I</td>
<td></td>
</tr>
<tr>
<td>PHY 104</td>
<td>Fundamental Physics II</td>
<td>4</td>
</tr>
<tr>
<td>or PHY 204</td>
<td>General Physics II</td>
<td></td>
</tr>
<tr>
<td>PHY 250</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 302</td>
<td>Optics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 311</td>
<td>Experimental Physics</td>
<td>2</td>
</tr>
<tr>
<td>PHY 334</td>
<td>Electrical Circuits</td>
<td>3</td>
</tr>
</tbody>
</table>

Select at least nine additional credits of electives in physics numbered higher than PHY 250 or from any AST course 9

A minimum of 24 credits outside physics, including the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 110</td>
<td>Microeconomics and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECO 120</td>
<td>Global Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACC 221</td>
<td>Accounting Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ACC 222</td>
<td>Accounting Principles II</td>
<td>3</td>
</tr>
<tr>
<td>FIN 355</td>
<td>Principles of Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 308</td>
<td>Behavior and Theory in Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select additional electives in business at the 300/400 level 3

Additional nine credits required to meet course prerequisites:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 207</td>
<td>Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MTH 208</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Credits 64

Degree requirements

All students must complete the general education, college core, major/ minor, and university degree requirements in order to qualify for a degree. The easiest way to track all of these requirements is to refer to the Advisement Report (AR) found in the Student Information System (WINGS) Student Center. All enrolled students have access to the AR.

- General education (http://catalog.uwlax.edu/undergraduate/ generaleducation)
- College core (p. 1)
- Baccalaureate degree requirements (p. 1)

College of Science and Health (SAH)

Bachelor of Science core requirements

B.S. and B.A. students graduating from the College of Science and Health are required to take two natural laboratory science courses selected from the general education laboratory science category (GE 05) and from BIO 203, BIO 304, BIO 210, CHM 104, ESC 221, ESC 222, PHY 104, or PHY 204, and they either must take two mathematics courses or one math course and one computer science course from the math/logical systems category of the general education requirements (GE 02). One of the two science courses must be from a department outside of the student’s major department.

Note: Math courses can be pairs, i.e. 150 and 151; MTH/CS majors can use two science courses from same department.

For the Bachelor of Science degree, students must complete a major from the college plus:
- a minor (or a second major) from any college or
- 18 credits at the 300/400 level in courses outside the major department from any college. Internship credits generally do not count toward this college core option.

Baccalaureate degree requirements

Candidates for the Bachelor of Arts or the Bachelor of Science degrees must accomplish the following:

1. Fulfill the general education requirements.
2. Complete at least one ethnic studies (diversity) course.
3. Complete the courses prescribed by the Undergraduate Curriculum Committee for the degree desired in the respective school or college. (No substitutions for graduation may be made in course requirements for a major or minor after the fourth week of the last semester of the senior year.)
4. Earn a minimum of 120 semester credits with at least a 2.00 cumulative GPA. At least 40 credits must be earned in 300/400 (senior college) level courses. Courses earned at the 100/200 level that transferred to UW-L as 300/400 level courses do not apply to this requirement nor do courses from two-year schools.
5. Complete major and minor requirements with at least a 2.00 GPA in each major and minor (and concentration or emphasis, if selected).
6. A minimum of 30 semester credits in residence at UW-L is required for graduation. (See undergraduate resident requirement (http://catalog.uwlax.edu/undergraduate/academicpolicies/graduation/#undergraduate-residence-requirement).)
7. File a completed “Apply for Graduation” form via the WINGS Student Center as soon as the student has registered for his or her final semester or summer term in residence. December and winter intersession graduates should file by May 1. May and summer graduates should file by December 1.

1 Grade point average requirements for some programs will be considerably higher than 2.00. Re-entering students may be required to earn credits in excess of the 120 needed for graduation in any curriculum in order to replace credits earned in courses in which the content has changed substantially in recent years. Each case will be judged on its own merit.

No degree will be awarded unless all requirements are fulfilled and recorded within 30 days after the official ending date of each term.

Sample degree plan

Below is a sample degree plan that can be used as a guide to identify the courses required to complete the major and other requirements needed for degree completion. The actual degree plan may differ depending on
the course of study selected (second major, minor, etc.). This sample plan also assumes readiness for each course and/or major plan. Actual degree plans may differ. Some courses may not be offered every term. Review course descriptions or the class timetable for course offering information.

The sample degree plans represented in this catalog are intended for first-year students entering UW-L in the fall term. Students should use the Advisement Report (AR) in WINGS (https://wings.uwlax.edu/psp/csprod/?cmd=login&amp;languageCd=ENG&) and work closely with their faculty advisor(s) and college dean’s office to ensure declaration and completion of all requirements in a timely manner.

**General Education Program**

General education (Gen Ed) is the common educational experience for all undergraduates at UW-L. Sample degree plans include Gen Ed placeholders to ensure completion of the general education curriculum. Courses may be rearranged to fit the needs or recommendations of the student’s program of study. Gen Ed courses may be taken during winter term (January between the semesters) and summer to reduce the course load during regular terms (fall and spring). Consult with your advisor and/or the assistant to the dean in your college for assistance with course and schedule planning. Refer to the general education requirements (http://catalog.uwlax.edu/undergraduate/generaleducation) for more specific details.

Note: at least 40 credits of the 120 credits required must be earned at the 300/400 level.

This sample degree plan does not establish a contractual agreement. It identifies the minimum requirements a student must successfully complete, to qualify for a degree, in a format intended to assist the student plan their academic career.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 203 or 103</td>
<td>4</td>
<td>PHY 204 or 104</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHY 497</td>
<td>1</td>
<td>PHY 497</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MTH 207 (Gen Ed Math)</td>
<td>5</td>
<td>MTH 208 (Gen Ed Math)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ENG 110 or 112 (Gen Ed Literacy-Written)</td>
<td>3</td>
<td>HIS 101, 102, or ARC 200 (Gen Ed World Hist)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Gen Ed Arts</td>
<td>2-3</td>
<td>CST 110 (Gen Ed Literacy-Oral)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Credits:</strong> 15</td>
<td><strong>15</strong></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 302</td>
<td>3</td>
<td>PHY 250</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHY 311 (Writing Emphasis)</td>
<td>2</td>
<td>ECO 120 (Gen Ed Global Studies)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ECO 110 (Gen Ed Self &amp; Society)</td>
<td>3</td>
<td>ACC 221</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BUS 205</td>
<td>3</td>
<td>Gen Ed Arts</td>
<td>2-3</td>
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</table>

*Gen Ed Minority Cultures*

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 222</td>
<td>3</td>
<td>PHY 334 (Writing Emphasis)</td>
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</table>

**SAH Core (300/400 not PHY) or Minor**

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 498</td>
<td>1-3</td>
<td>PHY 491</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PHY Elective</td>
<td>3</td>
<td>PHY Elective 300/400</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>FIN 355</td>
<td>3</td>
<td>MGT 308</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business Elective 300/400</td>
<td>3</td>
<td>300/400-Level Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Gen Ed Elective</td>
<td>3</td>
<td>300/400-Level Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University Elective</td>
<td>3</td>
<td>University Elective</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY Elective</td>
<td>3</td>
<td>PHY Elective 300/400</td>
<td>3</td>
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<tr>
<td>Gen Ed Elective</td>
<td>3</td>
<td>300/400-Level Elective</td>
<td>3</td>
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<tr>
<td>University Elective</td>
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<td>University Elective</td>
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</tbody>
</table>

**Total Credits:** 120