Pre-Professional Study

Pre-professional programs are specifically designed programs that vary in length from one to four years and prepare students for entrance into professional schools. Bemidji State University offers fourteen pre-professional programs.

While some students choose to complete pre-professional programs that require one or two years of study, students preparing for entrance to schools of medicine, dentistry, law, pharmacy, optometry, veterinary medicine, or other fields are advised to earn a baccalaureate degree in an appropriate field of study.

Pre-professional programs are very demanding, and entrance into professional schools is dependent upon the preparation and academic competence achieved at the pre-professional level. This academic preparation must be planned to meet requirements defined by each professional school. Academic advisors assist students in selecting courses and in understanding entrance criteria. For these reasons, it is particularly important that pre-professional students work closely with their pre-professional advisor. Delay in meeting with the pre-professional advisor could result in delayed entrance in professional school.

Programs
- Pre-Chiropractic
- Pre-Dentistry
- Pre-Engineering
- Pre-Law
- Pre-Medicine
- Pre-Mortuary Science
- Pre-Occupational Therapy
- Pre-Optometry
- Pre-Osteopathic Medicine
- Pre-Pharmacy
- Pre-Physical Therapy
- Pre-Physician Assistant
- Pre-Podiatric Medicine
- Pre-Veterinary Medicine

Pre-Chiropractic

Advisors: Dr. Julie Larson, Dr. Kerry Openshaw, Dr. Mark Wallert

1. The pre-chiropractic student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-chiropractic is not an academic major. Although the major may be in any field of study, experience indicates that a Biology major will provide the student with an advantage while attending chiropractic school.

2. Early entrance into chiropractic school is possible for some students. Most students, however, enter chiropractic school after completing a baccalaureate degree. Many states now require that chiropractors must have a baccalaureate degree in addition to their chiropractic degree prior to being licensed as a chiropractor. In addition, some chiropractic schools may require more courses than listed below. It is the responsibility of the pre-chiropractic student to become aware of these additional requirements and to plan his or her pre-chiropractic curriculum accordingly.

3. The pre-chiropractic student should work closely with the pre-chiropractic advisor so all course requirements are fulfilled prior to entrance into chiropractic school. Delay in meeting with the pre-chiropractic advisor will likely result in delayed entrance into chiropractic school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most chiropractic schools:
   - BIOL 1211, 1212, 2360, 3250, 3260, 3710
   - CHEM 2211, 2212, 3311, 3312, 3371, 3372
   - ENGL 1151, 2152
   - MATH 1470
   - PHYS 1101, 1102 (or) 2101, 2102

5. The following courses are strongly recommended to be included in the student’s pre-chiropractic curriculum:
   - ACCT 1100
   - BIOL 1300, 3580, 3590, 3920, 4270
   - CHEM 4411, 4412, 4471
   - COMM 1100
   - PSY 1100
   - SOC 1104
6. A suggested pre-chiropractic academic schedule is listed below; numbers in parentheses are semester credits:

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1211, 1212</td>
<td>(4,4)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212</td>
<td>(4,4)</td>
<td></td>
</tr>
<tr>
<td>ENGL 1151, 2152</td>
<td>(3,3)</td>
<td></td>
</tr>
<tr>
<td>MATH 1470; F or S; (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Chiropractic Advisor</td>
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<td></td>
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</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1300; F or S; (2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 2360, 3710; F; S; (4,4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 3920; F; (1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3311, 3312; F; S; (3,3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3371, 3372; F; S; (1,1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS; Consult your Pre-Chiropractic Advisor F; S; (5,5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Chiropractic Advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3250, 3260; F; S; (4,4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Chiropractic Advisor</td>
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</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consult your Pre-Chiropractic Advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pre-Dentistry**

Advisors: Dr. Julie Larson, Dr. Kerry Openshaw, Dr. Ken Traxler

1. The pre-dental student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-Dentistry is not an academic major. The major may be in any field of study. The Dental Admission Test (DAT) is taken in the spring of the junior year.

2. Early entrance into dental school is possible for some students. Most students, however, enter dental school after completing a baccalaureate degree. In addition, some dental schools may require more courses than listed below. It is the responsibility of the pre-dental student to become aware of these additional requirements and to plan his or her pre-dental curriculum accordingly.

3. The pre-dental student should work closely with the pre-dentistry advisor so all course requirements are fulfilled prior to entrance into dental school. Delay in meeting with a pre-dental advisor will likely result in delayed entrance into dental school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most dental schools:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1211, 1212</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212, 3311, 3312, 3371, 3372</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1151, 2152</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1470</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 1101, 1102 (or) 2101, 2102</td>
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</tbody>
</table>

5. The following courses are recommended to be included in the student’s pre-dental curriculum:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2110 or 2310, 3590, 3710, 4270</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 4411, 4412, 4471</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. A suggested pre-dental academic schedule is listed below; numbers in parentheses are semester credits:

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1211, 1212</td>
<td>(4,4)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212</td>
<td>(4,4)</td>
<td></td>
</tr>
<tr>
<td>ENGL 1151, 2152</td>
<td>(3,3)</td>
<td></td>
</tr>
<tr>
<td>MATH 1470; F or S; (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Dentistry Advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2110 or 2310, 3710; F; S; (5 or 4,4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3311, 3312; F; S; (3,3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 3371, 3372; F; S; (1,1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 1101, 1102 or 2101, 2102; F; S; (4,4 or 5,5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Dentistry Advisor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives: Consult your Pre-Dentistry Advisor</td>
<td></td>
<td></td>
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</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives: Consult your Pre-Dentistry Advisor</td>
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<td></td>
</tr>
</tbody>
</table>

**Pre-Engineering**

Advisors: Dr. David Bahr

The pre-engineering program is a course of study that provides the lower division foundation course work in engineering. Students in this program can transfer to an engineering school for their junior and senior years. Course work taken at Bemidji State can be applied to standard engineering degree programs at the University of Minnesota and at other nearby institutions. The lower division curriculum is rather universal, but the requirements will vary somewhat with the specialty field and with the choice of professional school. Two curricular options are shown below, and other options are available. Only the freshman year is presented; subsequent years must be scheduled in consultation with an advisor.

**Option I-Freshman Year (2 year curriculum)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1151, 2152</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CS 2321 or equivalent; consult with advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 2471</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 2101, 2102</td>
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</tbody>
</table>

Liberal Education Requirements

**Option II-Freshman Year (2-3 year curriculum)**

This option allows for a review of algebra and trigonometry prior to enrollment in the calculus sequence. Since registration in the Physics sequence is delayed in this option, an additional year may
be required for completion. Please note that review courses in mathematics will not transfer to an engineering school.

CHEM 2211, 2212  
CS 2321 or equivalent; consult with advisor.  
ENGL 1151, 2152  
MATH 1470, 2471  
PHYS 2101  

Liberal Education Requirements

**Pre-Law**

**Advisors: Dr. Patrick Donnay, Ms. Carol Nielsen**

A number of career opportunities are available for those interested in careers in the legal field. Lawyers are employed in private practice, corporations, non-profit organizations, and by the government. Legal assistants are in growing demand. Students should develop communication and analytical skills as well as an understanding of human values and institutions. Law school admissions are dependent upon grade point average, performance on the LSAT exam and other criteria. A variety of undergraduate programs are appropriate for law school, though the department of political science has an interdisciplinary pre-law emphasis in its major.

**Pre-Medicine**

**Advisors: Dr. Holly LaFerriere, Dr. Julie Larson, Dr. Kerry Openshaw, Dr. Ken Traxler, Dr. Mark Wallert**

1. The pre-medical student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-Medicine is not an academic major. Although the major may be in any field of study, experience indicates that a Biology or Chemistry major will provide the student with an advantage on the Medical College Admission Test (MCAT).

2. Early entrance into medical school is possible for some students. Most students, however, enter medical school after completing a baccalaureate degree. In addition, some medical schools may require more courses than listed below. It is the responsibility of the pre-medical student to become aware of these additional requirements and to plan his or her pre-medical curriculum accordingly.

3. Admission to medical school is highly competitive; typically, only about 10% of applicants are accepted. Admitted students normally have a grade point average of 3.5 or higher and MCAT scores of 9 or higher in each section of the exam. In planning your program it is important to consider alternatives, in case you are not accepted into medical school.

4. Normally, a pre-medicine student will take the MCAT exam in the spring of their junior year. Therefore, all of the courses on which the MCAT is based (a year of biology, a year of introductory chemistry, a year of organic chemistry, and a year of physics) should be completed by the fall of your junior year. The pre-medical student should work closely with their pre-medicine advisor so all course requirements are fulfilled prior to entrance into medical school. A delay in meeting with the pre-medical advisor will likely result in delayed entrance into medical school.

5. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most medical schools:

   - BIOL 1211, 1212 (some schools require additional biology credits)  
   - CHEM 2211, 2212, 3311, 3312, 3371, 3372 (some schools require biochemistry)  
   - ENGL 1151, 2152  
   - PHYS 1101, 1102 (or) 2101, 2102  
   - MATH (math requirements vary from school to school)

6. Additional coursework in the sciences and social sciences will help students prepare for the MCAT and provide useful background for medical school courses. Consult the Pre-Medical advisor for suggestions on additional coursework.

7. A suggested pre-medical academic schedule is listed below:

**Freshman**

- BIOL 1211, 1212  
- CHEM 2211, 2212  
- ENGL 1151, 2152  
- Electives: Consult your Pre-Medicine Advisor

**Sophomore**

- CHEM 3311, 3312  
- CHEM 3371, 3372  
- PHYS 1101, 1102 or 2101, 2102  
- Electives: Consult your Pre-Medicine Advisor

**Junior**

- Electives: Consult your Pre-Medicine Advisor

**Senior**

Consult your Pre-Medicine Advisor

**Pre-Mortuary Science**

**Advisor: Dr. Kerry Openshaw**

1. Pre-mortuary science is a two-year program at Bemidji State University. Students will make application and transfer to another four-year accredited university to complete their baccalaureate degree in mortuary science.

2. Pre-mortuary science students at Bemidji State University should declare themselves as Biology majors and work closely with the pre-mortuary science advisor so that all course requirements are fulfilled prior to entrance into mortuary science school. Delay in meeting with the pre-mortuary science advisor will likely result in delayed entrance into mortuary science school.

3. Courses listed below meet prerequisite requirements for most mortuary science programs within the United States. Some mortuary science schools may require more courses than listed below. It is the responsibility of the student to research all prerequisite requirements for the mortuary science programs they.
3. The pre-occupational therapy student should work closely with the pre-occupational therapy advisor so all course requirements are fulfilled prior to entrance into occupational therapy school. Delay in meeting with the pre-occupational therapy advisor will likely result in delayed entrance into occupational therapy school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most occupational therapy schools:

- BIOL 1211, 1212, 2110, 2360
- CHEM 1111, 1112
- ENGL 1151, 2152
- MATH 1170
- PHYS 1101, 1102
- PSY 1100, 2217, 2237
- SOC 1104

5. The following courses are strongly recommended to be included in the student’s pre-occupational therapy curriculum:

- ACCT 1100
- BIOL 1300, 3920
- COMM 1100
- PHED 3100, 3110, 3200, 3300, 4150
- STAT 2610

6. A suggested pre-occupational therapy academic schedule is listed below; numbers in parentheses are semester credits:

**First Year Courses**

- BIOL 1110, 1120; F, S; (4,3)
- BIOL 1300; S; (2)
- CHEM 1111, 1112; F, S; (4,4)
- COMM 1100; S; (3)
- ENGL 1151, 2152; F, S; (3,3)
- MATH 1100; F; (3)
- Electives: Consult Pre-Mortuary Science Advisor

**Second Year Courses**

- ACCT 1101; F; (3)
- BIOL 2110, 3755; F, S; (5,3)
- BUAD 1100, 2220; F, S; (3,3)
- HLTH 3500; S; (3)
- PSY 1100; F; (4)
- SOC 1104; S; (3)
- STAT 2610; S; (4)
- Electives: Consult Pre-Mortuary Science Advisor

**Pre-Occupational Therapy**

**Advisors:** Dr. Christina Kippenhan, Dr. Kerry Openshaw, Dr. Ken Traxler

1. The pre-occupational therapy student should fulfill all requirements for a Bachelor of Science or Bachelor of Arts degree at Bemidji State University. The student should declare an academic major. Pre-occupational therapy is not an academic major. The major may be in any field of study. The Allied Health Professions Admission Test (AHPAT) or Graduate Record Examination (GRE) is taken in the spring of the junior year.

2. Many universities are dropping their undergraduate occupational therapy programs and replacing them with a graduate program. Most students enter occupational therapy school after completing a baccalaureate degree. In addition, some occupational therapy schools may require more courses than listed below. It is the responsibility of the pre-occupational therapy student to become aware of these additional requirements and to plan his or her pre-occupational therapy curriculum accordingly.

**Pre-Optometry**

**Advisors:** Dr. David Bahr, Dr. Holly LaFerriere, Dr. Julie Larson, Dr. Kerry Openshaw, Dr. Mark Wallert

1. The pre-optometry student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student
should declare an academic major. Pre-Optometry is not an academic major. The major may be in any field of study. The Optometry Admission Test (OAT) is taken in the winter of the junior year.

2. Early entrance into optometry school is possible for some students. Most students, however, enter optometry school after completing a baccalaureate degree. In addition, some osteopathic schools may require more courses than listed below. It is the responsibility of the pre-optometry student to become aware of these additional requirements and to plan his or her pre-optometry curriculum accordingly.

3. The pre-optometry student should work closely with the pre-optometry advisor so all course requirements are fulfilled prior to entrance into optometry school. Delay in meeting with the pre-optometry advisor will likely result in delayed entrance into optometry school.

4. General requirements for all schools include at least one year of biology or zoology, general chemistry, general physics, English, college mathematics, and psychology.

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
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<tbody>
<tr>
<td>BIOL 1211, 1212</td>
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<tr>
<td>CHEM 2211, 2212</td>
<td>(4,4)</td>
</tr>
<tr>
<td>ENGL 1151, 2152</td>
<td>(5)</td>
</tr>
<tr>
<td>MATH 1470</td>
<td>(3)</td>
</tr>
<tr>
<td>PHYS 1101, 2101, 2102</td>
<td>(5,5)</td>
</tr>
<tr>
<td>PSY 1100</td>
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</tr>
</tbody>
</table>

5. The following courses are strongly recommended to be included in the student’s pre-optometry curriculum:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2110 or 2310</td>
<td></td>
</tr>
<tr>
<td>CHEM 4411, 4471</td>
<td></td>
</tr>
</tbody>
</table>

6. A suggested pre-optometry academic schedule is listed below; numbers in parentheses are semester credits:

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1211, 1212; F, S; (3,3)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212; F, S; (4,4)</td>
<td></td>
</tr>
<tr>
<td>ENGL 1151, 2152; F, S; (3)</td>
<td></td>
</tr>
<tr>
<td>MATH 1470; F or S; (5)</td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Optometry Advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2110 or 2310, 3710; F, S; (5 or 4,4)</td>
<td></td>
</tr>
<tr>
<td>BIOL 3920; F (1)</td>
<td></td>
</tr>
<tr>
<td>CHEM 3311, 3312; F, S; (3,3)</td>
<td></td>
</tr>
<tr>
<td>CHEM 3371, 3372; F, S; (1,1)</td>
<td></td>
</tr>
<tr>
<td>PHYS 1101, 2101, 2102; F, S; (4,4 or 5,5)</td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Optometry Advisor</td>
<td></td>
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</tbody>
</table>

**Junior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives: Consult your Pre-Optometry Advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Senior**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consult your Pre-Optometry Advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Pre-Osteopathic Medicine**

Advisors: Dr. Holly LaFerriere, Dr. Kerry Openshaw, Dr. Mark Wältter

1. The pre-osteopathic medical student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-Osteopathic Medicine is not an academic major. Although the major may be in any field of study, experience indicates that a Biology or Chemistry major will provide the student with an advantage on the Medical College Admission Test (MCAT). The MCAT is taken by early Spring of the Junior year, and application to osteopathic medical school is submitted by early September of the Senior year.

2. Early entrance into osteopathic medical school is possible for some students. Most students, however, enter osteopathic medical school after completing a baccalaureate degree. In addition, some osteopathic medical schools may require more courses than listed below. It is the responsibility of the pre-osteopathic medical student to become aware of these additional requirements and plan his or her pre-osteopathic medical curriculum accordingly.

3. The pre-osteopathic medical student should work closely with the pre-osteopathic medical advisor so all course requirements are fulfilled prior to entrance into osteopathic medical school. A delay in meeting with the pre-osteopathic medical advisor will likely result in delayed entrance into osteopathic medical school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most osteopathic medical schools:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1211, 1212 (additional biology courses may be required)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212, 3311, 3312, 3371, 3372 (biochemistry may be required)</td>
<td></td>
</tr>
<tr>
<td>ENGL 1151, 2152</td>
<td></td>
</tr>
<tr>
<td>PHYS 1101, 1102 (or) 2101, 2102</td>
<td></td>
</tr>
</tbody>
</table>

5. The following courses are strongly recommended to be included in the student’s pre-osteopathic medicine curriculum:

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1300, 2110, 2360, 3250, 3260, 3580, 3590, 3710, 4270</td>
<td></td>
</tr>
<tr>
<td>CHEM 4411, 4412, 4471, 4472</td>
<td></td>
</tr>
<tr>
<td>MATH 2471, 2472</td>
<td></td>
</tr>
</tbody>
</table>

6. Consult your pre-osteopathic medical advisor for additional courses, including Liberal Education courses, which will be most beneficial for successful osteopathic medical school candidates.

7. A suggested pre-osteopathic medicine academic schedule is listed below; numbers in parentheses are semester credits.

**Freshman**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1211, 1212; F, S; (4,4)</td>
<td></td>
</tr>
<tr>
<td>CHEM 2211, 2212; F, S; (4,4)</td>
<td></td>
</tr>
<tr>
<td>ENGL 1151, 2152; F, S; (3,3)</td>
<td></td>
</tr>
<tr>
<td>MATH 1470; F or S; (5)</td>
<td></td>
</tr>
<tr>
<td>Electives: Consult your Pre-Osteopathic Medical Advisor</td>
<td></td>
</tr>
</tbody>
</table>

**Sophomore**

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1300; F or S; (2)</td>
<td></td>
</tr>
<tr>
<td>CHEM 3311, 3312; F, S; (4,4)</td>
<td></td>
</tr>
</tbody>
</table>
PHYS: Consult your Pre-Osteopathic Medical Advisor
MATH: Consult your Pre-Osteopathic Medical Advisor

Junior

BIOL 3250, 3260; F, S (4,4)
Electives: Consult your Pre-Osteopathic Medical Advisor
MCAT—Early Spring

Senior

Consult your Pre-Osteopathic Medical Advisor
Osteopathic Medical School Application—Early September

Pre-Pharmacy

Advisors: Dr. Julie Larson, Dr. Kerry Openshaw

Note: There is some variation depending on which pharmacy school is attended. Consult with advisor as soon as possible.

Freshman

BIOL 1110, 1120 (4,3)
or BIOL 1211, 1212 (4,4)
*CHEM 1111, 1112 (4,4)
or CHEM 2211, 2212 (4,4)
COMM 1100 (3)
ENGL 1151, 2152 (3,3)
MATH 1470, 2471 (5,5)
Electives, taken with consent of advisor.
*Which sequence to take depends on which pharmacy school is attended, but 1211, 1212 is recommended.

Sophomore

BIOL 2110 (5)
BIOL 3710 (4)
CHEM 3311, 3312 (3,3)
CHEM 3371, 3372 (1,1)
ECON 2000 (3)
MATH 2472 (5)
PHYS 1101, 1102 (4,4)
or PHYS 2101, 2102 (5,5)
PSY 1100 (4)
SOC 1104 (3)
Electives, with consent of advisor

Pre-Physical Therapy

Advisors: Dr. Christina Kippenhan, Dr. Kerry Openshaw, Dr. Ken Traxler

1. The pre-physical therapy student should fulfill all requirements for a Bachelor of Science or Bachelor of Arts degree at Bemidji State University. The student should declare an academic major. Pre-physical therapy is not an academic major. The major may be in any field of study. The Allied Health Professions Admission Test (AHPAT) or Graduate Record Examination (GRE) is taken in the spring of the junior year.

2. Many universities are dropping their undergraduate physical therapy programs and replacing them with a graduate program. Most students enter physical therapy school after completing a baccalaureate degree. In addition, some physical therapy schools may require more courses than listed below. It is the responsibility of the pre-physical therapy student to become aware of these additional requirements and to plan his or her pre-physical therapy curriculum accordingly.

3. The pre-physical therapy student should work closely with the pre-physical therapy advisor so all course requirements are fulfilled prior to entrance into physical therapy school. Delay in meeting with the pre-physical therapy advisor will likely result in delayed entrance into physical therapy school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most physical therapy schools:

   BIOL 1211, 1212, 2110, 2360, 3710
   CHEM 2211, 2212, 3311, 3312, 3371, 3372
   ENGL 1151, 2152
   MATH 1470
   PHYS 1101, 1102 (or) 2101, 2102

5. The following courses are strongly recommended to be included in the student’s pre-physical therapy curriculum:

   ACCT 1100
   BIOL 1300, 3590, 3920, 4270
   COMM 1100
   PHED 3100, 3110, 3190, 3200, 3300, 4150
   PSY 1100, 2217, 2237
   SOC 1104
   STAT 2610

6. A suggested pre-physical therapy academic schedule is listed below; numbers in parentheses are semester credits:

   Freshman
   BIOL 1211, 1212; F, S; (4,4)
   CHEM 2211, 2212; F, S; (4,4)
   ENGL 1151, 2152; F, S; (3,3)
   MATH 1470; F or S; (5)
   Electives: Consult your Pre-Physical Therapy Advisor

   Sophomore

   BIOL 1300; F or S; (2)
   BIOL 2360, 3710; F, S; (4,4)
   BIOL 3920; F; (1)
   CHEM 3311, 3312; F, S; (3,3)
   CHEM 3371, 3372; F, S; (4,1)
   PHYS: Consult your Pre-Physical Therapy Advisor
   Electives: Consult your Pre-Physical Therapy Advisor

   Junior

   Electives: Consult your Pre-Physical Therapy Advisor

   Senior
Pre-Physician Assistant

Advisors: Dr. Holly LaFerriere, Dr. Julie Larson, Dr. Kerry Openshaw, Dr. Ken Traxler, Dr. Mark Wallert

1. The pre-physician assistant student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-Physician Assistant is not an academic major. The major may be in any field of study.

2. Early entrance into physician assistant school is possible for some students. Many physician assistant programs now require more patient care hours to qualify for entrance into their program. Physician Assistant programs in the United States vary significantly, and the pre-physician assistant student must research the type of program they desire to enter. In addition, some physician assistant schools may require more courses than listed below. It is the responsibility of the pre-physician assistant student to become aware of these additional requirements and to plan his or her pre-physician assistant curriculum accordingly.

3. The pre-physician assistant student should work closely with the pre-physician assistant advisor so all course requirements are fulfilled prior to entrance into physician assistant school. Delay in meeting with the pre-physician assistant advisor will likely result in delayed entrance into physician assistant school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most physician assistant schools:
   - BIOL 1211, 1212, 1300, 2110, 3710
   - CHEM 2211, 2212, 3311, 3312, 3371, 3372, 4411, 4412
   - ENGL 1151, 2152
   - PHYS 1101, 1102 (or) 2101, 2102
   - STAT 2610

5. The following courses are strongly recommended to be included in the student's pre-physician assistant curriculum:
   - BIOL 2360, 3580, 3590, 4270
   - CHEM 4471, 4472
   - PSY 1100, 2237

6. A suggested pre-physician assistant academic schedule is listed below; numbers in parentheses are semester credits:

   **Freshman**
   - BIOL 1211, 1212; F, S; (4,4)
   - CHEM 2211, 2212; F, S; (4,4)
   - ENGL 1151, 2152; F, S; (3,3)
   - STAT 2610; F or S; (4)
   - Electives: Consult your Pre-Physician Assistant Advisor

   **Sophomore**
   - BIOL 1300; F or S; (2)
   - BIOL 2360, 3710; F, S; (4,4)
   - CHEM 3311, 3312; F, S; (3,3)
   - CHEM 3371, 3372; F, S; (1,1)

   **Senior**
   - Consult your Pre-Physician Assistant Advisor

Pre-Podiatric Medicine

Advisors: Dr. Kerry Openshaw, Dr. Mark Wallert

1. The pre-podiatric medical student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-Podiatric Medicine is not an academic major. Although the major may be in any field of study, experience indicates that a Biology or Chemistry major will provide the student with an advantage on the Medical College Admission Test (MCAT). The MCAT is taken by early Spring of the Junior year, and application to podiatric medical school is submitted by early September of the Senior year.

2. Early entrance into podiatric medical school is possible for some students. Most students, however, enter podiatric medical school after completing a baccalaureate degree. In addition, some podiatric medical schools may require more courses than listed below. It is the responsibility of the pre-podiatric medical student to become aware of these additional requirements and plan his or her pre-podiatric medical curriculum accordingly.

3. The pre-podiatric medical student should work closely with the pre-podiatric medical advisor so all course requirements are fulfilled prior to entrance into podiatric medical school. A delay in meeting with the pre-podiatric medical advisor will likely result in delayed entrance into podiatric medical school.

4. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most podiatric medical schools:
   - BIOL 1211, 1212 (additional biology courses may be required)
   - CHEM 2211, 2212, 3311, 3312, 3371, 3372 (biochemistry may be required)
   - ENGL 1151, 2152
   - PHYS 1101, 1102 (or) 2101, 2102

5. The following courses are strongly recommended to be included in the student’s pre-podiatric medicine curriculum:
   - BIOL 1300, 2110, 2360, 3250, 3260, 3580, 3590, 3710, 4270
   - CHEM 4411, 4412, 4471, 4472
   - MATH 2471, 2472

6. Consult your pre-podiatric medical advisor for additional courses, including Liberal Education courses, which will be most beneficial for successful podiatric medical school candidates.

7. A suggested pre-podiatric medicine academic schedule is listed below; numbers in parentheses are semester credits.

   **Freshman**
   - PHYS 1101, 1102, or 2101, 2102
   - Electives: Consult your Pre-Physician Assistant Advisor
BIOL 1211, 1212; F, S; (4,4)
CHEM 2211, 2212; F, S; (4,4)
ENGL 1151, 2152; F, S; (3,3)
MATH 1470; F or S; (5)
Electives: Consult your Pre-Podiatric Medical Advisor

Sophomore

BIOL 1300; F or S; (2)
CHEM 3311, 3312; F, S; (4,4)
PHYS: Consult your Pre-Podiatric Medical Advisor
MATH: Consult your Pre-Podiatric Medical Advisor

Junior

BIOL 3250, 3260; F, S (4,4)
Electives: Consult your Pre-Podiatric Medical Advisor
MCAT—Early Spring

Senior

Consult your Pre-Podiatric Medical Advisor
Podiatric Medical School Application—Early September

Pre-Veterinary Medicine

Advisors: Dr. Holly LaFerriere, Dr. Kerry Openshaw, Dr. Ken Traxler

1. The pre-veterinary medical student should fulfill all requirements for a Bachelor of Science degree at Bemidji State University. The student should declare an academic major. Pre-Veterinary Medicine is not an academic major. Although the major may be in any field of study, experience indicates that a science major will provide the student with an advantage while attending veterinary medical school and in preparing for the Veterinary College Admissions Test. Most veterinary medical schools require the student to take the Graduate Record Examination (GRE) or the Veterinary College Admissions Test (VCAT). The GRE or VCAT is taken in the spring of the junior year.

2. Admission to veterinary school is very competitive. Accepted students typically have a grade point average of 3.70 and average GRE scores of 1800 or higher. Pre-veterinary students should plan their program so they have other options if they are not admitted to veterinary school.

3. Early entrance into veterinary medical school is possible for some students. Most students, however, enter veterinary medical school after completing a baccalaureate degree. In addition, some veterinary medical schools may require more courses than listed below. It is the responsibility of the pre-veterinary medical student to become aware of these additional requirements and to plan his or her pre-veterinary medical curriculum accordingly.

4. The pre-veterinary medical student should work closely with the pre-veterinary medicine advisor so all course requirements are fulfilled prior to entrance into veterinary medical school. A delay in meeting with your pre-veterinary medicine advisor will likely result in delayed entrance into veterinary medical school.

5. In addition to a strong background in behavioral sciences, English, and humanities, the following courses are specifically required for entrance into most pre-veterinary medical schools:

   BIOL 1211, 1212, 2360
   CHEM 2211, 2212, 3311, 3312, 3371, 3372, 4411
   ENGL 1151, 2152
   PHYS 1101, 1102 (or) 2101, 2102
   MATH (math requirements vary from school to school)

6. In addition, the following courses are recommended, as they are required by some veterinary schools:

   BIOL 3250, 3260, 3710
   CHEM 4412, 4471
   COMM 1100

7. A suggested pre-veterinary medical academic schedule is listed below:

   Freshman
   BIOL 1211, 1212
   CHEM 2211, 2212
   ENGL 1151, 2152
   MATH (Choose course(s) based on requirements of school you plan to attend)
   Electives: Consult your Pre-Veterinary Medicine Advisor

   Sophomore
   BIOL 2360
   CHEM 3311, 3312
   CHEM 3371, 3372
   PHYS 1101, 1102 (or) 2101, 2102
   Other recommended Pre-Veterinary courses
   Electives: Consult your Pre-Veterinary Medicine Advisor

   Junior
   CHEM 4411
   Other recommended Pre-Veterinary courses
   Electives: Consult your Pre-Veterinary Medicine Advisor

   Senior
   Consult your Pre-Veterinary Medicine Advisor

Courses

Warning: Invalid argument supplied for foreach() in /data/web/wp/www.bemidjistate.edu/wp/academics/catalog/pdf/views/area.php on line 104
All-University Courses

The course numbers listed below, not always included in the semester class schedule, may be registered for by consent of the advisor, instructor, or department chair, or may be assigned by the department when warranted. Individual registration requires previous arrangement by the student and the completion of any required form or planning outline as well as any prerequisites.

1910, 2910, 3910, 4910 DIRECTED INDEPENDENT STUDY
1920, 2920, 3920, 4920 DIRECTED GROUP STUDY
1930, 2930, 3930, 4930 EXPERIMENTAL COURSE
1940, 2940, 3940, 4940 IN-SERVICE COURSE
1950, 2950, 3950, 4950 WORKSHOP, INSTITUTE, TOUR
1960, 2960, 3960, 4960 SPECIAL PURPOSE INSTRUCTION
1970, 2970, 3970, 4970 INTERNSHIP
1980, 2980, 3980, 4980 RESEARCH
1990, 2990, 3990, 4990 THESIS