Dual Degree (BS/PharmD) Program
Grand Valley State University/University of Michigan

On September 23, 2002, Grand Valley State University and the College of Pharmacy at the University of Michigan signed an agreement that establishes a dual-degree undergraduate/professional program leading to both the bachelor of science degree from Grand Valley and the Doctor of Pharmacy degree from the University of Michigan.

Under the agreement, selected Grand Valley sophomores who meet specified criteria will be granted guaranteed admission to the College of Pharmacy at the University of Michigan. After successfully completing their junior year at Grand Valley, the students will transfer to the University of Michigan College of Pharmacy, where they will begin four years of the pharmacy program. After completing the first year of pharmacy studies at University of Michigan, the students will receive their bachelor’s degree from Grand Valley. Upon completion of the remaining three years of pharmacy studies, the students will receive their doctor of pharmacy degree (PharmD) from the University of Michigan. Initial students in this dual-degree program will earn their bachelor’s degree in Biomedical Sciences; subsequent Grand Valley undergraduate degree options may also include degrees in Biology, Chemistry, and Cell and Molecular Biology.

Because of the selectiveness of the University of Michigan College of Pharmacy, the majority of students accepted into the pharmacy program already have completed their baccalaureate degrees. This dual-degree program with Grand Valley will save one year of undergraduate studies for the participating students. The program will start out small; up to five Grand Valley students each year will be admitted into the dual-degree program. For your information, attached is some course specific information for this program.
Dual Degree Undergraduate Component Study Plan

Grand Valley State University – University of Michigan
Dual Bachelor of Science (Biomedical Sciences) – Doctor of Pharmacy Program

September 23, 2002

**Freshman Year at Grand Valley** (assumes waiver of MTH 110 basic skills requirement):

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>CHM 115 Principles of Chemistry I (5 cr)</td>
<td>CHM 116 Principles of Chemistry II (5 cr)</td>
</tr>
<tr>
<td>BIO 120 General Biology I (4 cr)</td>
<td>MTH 201* Calculus/Analytic Geom I (5 cr)</td>
</tr>
<tr>
<td>WRT 150 Strategies in Writing (4 cr)</td>
<td>BMS 208 Human Anatomy (3 cr)</td>
</tr>
<tr>
<td>Gen Ed (Social Sciences Category) (3 cr) or</td>
<td>Gen Ed (Arts Category) (3 cr)</td>
</tr>
<tr>
<td>MTH 122, if needed (3 cr)</td>
<td>Semester Total (16 cr)</td>
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<tr>
<td>Semester Total (16 cr)</td>
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**Sophomore Year at Grand Valley:**

<table>
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<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>CHM 241 Organic Chemistry I (4 cr)</td>
<td>CHM 242 Organic Chemistry II (4 cr)</td>
</tr>
<tr>
<td>PHY 220 General Physics I (5 cr)</td>
<td>PHY 221 General Physics II (5 cr)</td>
</tr>
<tr>
<td>Gen Ed (Social Sciences Category) (3 cr)</td>
<td>Gen Ed (Philos/Literature Category) (3 cr)</td>
</tr>
<tr>
<td>Gen Ed (History Category) (3 cr)</td>
<td>Gen Ed Theme Course #1 (3 cr)</td>
</tr>
<tr>
<td>Semester Total (15 cr)</td>
<td>Semester Total (15 cr)</td>
</tr>
</tbody>
</table>

**Junior Year at Grand Valley:**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>BMS 212/213 Microbiology/Lab (4 cr)</td>
<td>BMS 495 Concepts in Wellness (Capstone &amp;</td>
</tr>
<tr>
<td>CHM 461 Biochemistry I (4 cr)</td>
<td>Writing Intensive Course) (3 cr)</td>
</tr>
<tr>
<td>Gen Ed (World Prespectives Category) (3 cr)</td>
<td>BIO 375/376 Genetics Lab (4 cr)</td>
</tr>
<tr>
<td>Gen Ed Theme Course #2 (3 cr)</td>
<td>Gen Ed (US Diversity Category) (3 cr)</td>
</tr>
<tr>
<td>Elective or WRT 305: Writing in the Disciplines (3 cr) or waived by exam</td>
<td>Gen Ed Theme Course #3 (3 cr)</td>
</tr>
<tr>
<td>Semester Total (14-17 cr)</td>
<td>STA 215 Introductory Applied Stats (3 cr)</td>
</tr>
<tr>
<td></td>
<td>Semester Total (16 cr)</td>
</tr>
</tbody>
</table>

*Students must complete MTH 122 and 123 before moving on to MTH 201.*

**Students who are accepted into this dual-degree program, successfully complete their approved Grand Valley undergraduate study plans, and meet all other requirements will transfer to the University of Michigan College of Pharmacy for 4 years of the professional component of the pharmacy curriculum.**

- BS in Biomedical Sciences conferred by GVSU after successful completion of P-1 year at the University of Michigan
- PharmD conferred by University of Michigan after successful completion of all 4 years of the professional component
Dual Degree (BS/PharmD) Program

Grand Valley State University – University of Michigan

September 23, 2002

Baccalaureate Component Degree Plan and Criteria: BS in Biomedical Sciences

Beginning with the entry class of Fall 2003, the University of Michigan College of Pharmacy will yearly grant admission to up to five (5) Grand Valley State University students who meet the following criteria, have been selected by Grand Valley State University faculty, and have been approved by the Admissions Committee of the College of Pharmacy at the University of Michigan.

1. Successful completion of at least 90 designated semester credits at Grand Valley, with a grade of C or higher in each course (only courses with grades of C or higher are accepted for transfer by the University of Michigan):

   BIO 120       General Biology I (4 cr)
   BIO 375       Genetics (3 cr)
   BIO 376       Laboratory in Genetics (1 cr)
   CHM 115       Principles of Chemistry I (5 cr)
   CHM 116       Principles of Chemistry II (5 cr)
   CHM 241       Organic Chemistry I (4 cr)
   CHM 242       Organic Chemistry II (4 cr)
   CHM 461       Biochemistry I (4 cr)
   MTH 201       Calculus and Analytic Geometry I (5 cr)
   MTH 202       Calculus and Analytic Geometry II (4 cr) – recommended
   PHY 220       General Physics I (5 cr)
   PHY 221       General Physics II (5 cr)
   BMS 208       Human Anatomy (3 cr)
   BMS 212       Introductory Microbiology (3 cr)
   BMS 213       Laboratory in Microbiology (1 cr)
   BMS 495       Concepts in Wellness – Capstone (3 cr)
   STA 215       Introductory Applied Statistics (3 cr)
   WRT 150       Strategies in Writing (4 cr)
   WRT 305       Writing in the Disciplines (3 cr) or successful junior-level writing assessment exam

GVSU General Education Requirements:
   Social Sciences Category – 2 courses (6 cr)
   Arts Category – 1 course (3 cr)
   Philosophy/Literature Category – 1 course (3 cr)
   History Category – 1 course (3 cr)
   World Perspectives Category – 1 course (3 cr)
   U.S. Diversity Category – 1 course (3 cr)
   Theme – 3 courses (9 cr)
   Supplemental Writing Skills – 2 “SWS designated courses
2. Overall cumulative GPA of at least 3.3
3. Significant and varied health-related experience.
4. Completed application form.
5. Two letters of recommendation, one of which must be from an employer.
6. Essay describing the applicant's career objectives and reasons for applying to the University of Michigan pharmacy program.
7. For students whose native language is not English, a minimum score of 85 on the Michigan English Language Assessment Battery (MELAB), including the oral interview, or 253 on the Test of English as a Foreign Language (TOEFL), including the TOEFL Test of Spoken English.
8. All high school and university transcripts.

Updated 11/4/2004