Getting on Track with MCAT Courses

Be aware that this list may change as more information about the MCAT becomes available!

Coursework Checklist

Required Courses: Cr.
- BIOL 171/L 4
- BIOL 172/L 4
- BIOL 275/L 4
- Biochemistry 4
- CHEM 161/L 4
- CHEM 162/L 4
- CHEM 272/L 5
- CHEM 273/L 4
- PHYS 151/L or 170/L 4 or 5
- PHYS 152/L or 272/L 4
- MATH 140 3
- PSY 100 3
- SOC 100 3

Recommended Courses:
- PSY 212 4
- PSY/SOCS 225 or ECON 321 3

Notes:
1. PSY 212 and PSY/SOCS 225 are not required for MCAT. Statistics and research methods concepts necessary for the MCAT may already be covered in your other science and behavioral science courses.
2. BIOL 275/L is required for the MCAT and is a pre-requisite for BIOL/MBBE/PEPS 402 and BIOC 441.
3. Biochemistry is required for the MCAT. BIOL/MBBE/PEPS 402 or BIOC 441 is recommended for the MCAT.

Assessment/placement exam required prior to enrollment.
Required pre-requisite sequencing.
BIOL 171 and 172 may be taken in any order.
BIOL 171 and 172 must be completed after or concurrently with CHEM 131 or 161.
MATH 140 or Math Assessment is a pre-requisite for PHYS 151.

PHYS 151-152 are trigonometry-based. PHYS 170-272 are calculus-based.
MATH 215-216 and PHYS 151-152 have been developed for life science majors.
MATH 241-242 and PHYS 170-272 have been developed for majors in chemistry, math, physics, and engineering.

UHM Pre-Health/Pre-Law Advising Center — ML — September 2017
First-Semester Science and Math Courses for Pre-Medical Students

- Be sure you have the **pre-requisites and a placement/assessment** for courses you choose.
- Check to see if you need to take a **placement/assessment exam** before enrolling.
- Take courses in the correct **sequence**.
- Consider **availability**: not all courses are offered every semester.
- Consider **course load per semester**: for the first semester, under-load rather than over-load.

<table>
<thead>
<tr>
<th>Sequence</th>
<th>Less----------</th>
<th>12 cr.</th>
<th>15-16 cr.</th>
<th>19 cr.</th>
<th>More---</th>
</tr>
</thead>
<tbody>
<tr>
<td>(part-time)</td>
<td>(min. full time)</td>
<td>(to graduate in 4 years)</td>
<td>(max.)</td>
<td>(overload)</td>
<td></td>
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### Mathematics

Pre-requisite(s) or an assessment exam needed.

Note: If you do not place into calculus, consult an academic advisor or the Math Department about preparatory courses.

Sequencing is flexible; consult the catalog, an advisor, or the Math Department.

Recommended for the health sciences:

**MATH 215 Applied Calculus I** (4 cr.)
- Pre: C (not C-) or better in 140 or assessment exam.

**OR**

**MATH 241 Calculus I** (4 cr.)
- Pre: C (not C-) or better in 140 or 215 or assessment exam.

**Quick tips for the assessment exam:**
- **Take the practice exams**: Available on the Math Department website; note the problems you missed and review similar problems in high school algebra or geometry textbooks.
- **Remember to take the official exam**: The online Math Practice Exam is an unofficial assessment. You must take an official exam in person.
- **Think carefully**: Questions are designed to test common errors.
- **Do your best**: You will only be allowed to take the exam once per semester.
- **Be patient**: Wait for the questions to fully load before answering.
- **Come prepared**: Bring your UH ID or an official picture ID and a pencil.
- **Visit**: [http://www.math.hawaii.edu/home/Placement.html](http://www.math.hawaii.edu/home/Placement.html)

### Physics

Check for math pre-requisite(s) or a Math Assessment.

Sequencing: 151/L + 152/L or 170/L + 272/L or 170A/L + 272A/L (Honors).

Recommended for the health sciences:

**PHYS 151 College Physics I** (3 cr.)
- Pre: C in MATH 140 or 215 or higher; or Math Assessment.

**PHYS 151L College Physics Lab I** (1 cr. 3-hr Lab)
- Pre: 151 (or concurrent).

**OR**

**PHYS 170 General Physics I** (4 cr.)
- Pre: MATH 242 (or concurrent) or MATH 252A (or concurrent);
  - MATH 216 may be substituted with consent.

**PHYS 170L General Physics I Lab** (1 cr. 3-hr Lab)
- Pre: 170 (or concurrent) or 170A (or concurrent).

### Chemistry

All students who wish to enroll in CHEM 131 or 161 for the first time must take the Pre-Chemistry Assessment and obtain a passing score.

Sequencing: 161/L + 162/L or 171/L (accelerated: 2 semesters in 1) or 181A/L (Honors).

Note: The accelerated courses, 171/L and 181/L, may cause difficulties when applying to schools that require a year of General Chemistry.

Recommended for the health sciences:

**CHEM 161 General Chemistry I** (3 cr.)
- Pre: C (not C-) in 131 or 151, successful completion of placement exam, or consent.

**CHEM 161L General Chemistry Lab I** (1 cr. 3-hr Lab)
- Pre: 161 (or concurrent).

**Quick tips for the placement exam:**
- **Take sample questions**: Available on chemistry department website. Review stoichiometry, algebra, and general chemistry concepts.
- **Think carefully**: Questions are designed to test common errors.
- **Do your best**: You will only be allowed to take the exam twice (not on the same day) before the semester begins.

### Biology

Pre-requisite(s) needed but no placement/assessment exam.

Sequencing: BIOL 171/L and 172/L may be taken in any order.

Recommended for the health sciences:

**BIOL 171 Introductory Biology I** (3 cr.)
- Pre: CHEM (131, 151, 161, 171, or 181A), concurrently, or consent.
  - Co-requisite: 171L.

**BIOL 171L Introductory Biology I Lab** (1 cr. 3-hr Lab)
- Pre: CHEM (131, 151, 161, 171, or 181A), concurrently, or consent.
  - Co-requisite: 171.

**OR**

**BIOL 172 Introductory Biology II** (3 cr.)
- Pre: CHEM (131, 151, 161, 171, or 181A), concurrently, or consent.
  - Co-requisite: 172.

**BIOL 172L Introductory Biology II Lab** (3 cr.)
- Pre: CHEM (131, 151, 161, 171, or 181A), concurrently, or consent.
  - Co-requisite: 172.