EXERCISE SCIENCE FLOWCHART
Kinesiology & Integrative Physiology

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

Fall Year 1  Spring

- KIP 1000 INTRO TO EXERCISE SCIENCE (1 CREDITS)
- BL 1400 PRINCIPALS OF BIOLOGY (3 CREDITS)
- CH 1150 UNIVERSITY CHEMISTRY (3 CREDITS)
- CH 1153 CHEMISTRY RECITATION (1 CREDIT)
- MA 1135 Calculus for Life Sciences (4 CREDITS)
- **ELECTIVE (3 CREDITS)

Fall Year 2  Spring

- KIP 1500 FOUNDATIONS OF KINESIOLOGY (3 CREDITS)
- PSY 2000 Introduction to Psychology (F.E.) (3 CREDITS)
- CH 1160 UNIVERSITY CHEMISTRY II (3 CREDITS)
- CH 1163 CHEMISTRY RECITATION II (1 CREDIT)
- MA 2100 Anatomy & Physiology I (3 CREDITS)
- BL 2100 Anatomy & Physiology II (3 CREDITS)
- BL 2101 Introduction to Athletic Training (F.S.)
- KIP 2100 Professionalism in Kinesiology (2 CREDITS)
- BL 2490 Human Nutrition (3 CREDITS)
- KIP 7200 Essential Biochemistry (3 CREDITS)

Fall Year 3  Spring

- BL 2020 Anatomy & Physiology III (3 CREDITS)
- BL 2021 Anatomy & Physiology III Lab (1 CREDIT)
- BL 2040 College Physics I (3 CREDITS)
- BL 2490 Human Nutrition (3 CREDITS)
- BL 2940 College Physics I Lab (1 CREDIT)
- MA 3715 Biostatistics (3 CREDITS)
- **ELECTIVE (6 CREDITS)
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Fall Year 4  Spring

- KIP 4100 Exercise Physiology (3 CREDITS)
- MA 3715 Biostatistics (3 CREDITS)
- BL 3970 Current Health Issues (3 CREDITS)
- **ELECTIVES (6 CREDITS)
- KIP 4000 Sports Nutrition Seminar (2 CREDITS)
- KIP 4200 Biomechanics of Human Movement (3 CREDITS)
- KIP 4210 (L) Biomechanics Lab (3 CREDITS)
- KIP 4300 Motor Learning & Control (3 CREDITS)
- KIP 4900 ES Internship (3 CREDIT)

Total Academic Credits: 128
Total Co-Curricular Units: 3

**ADDITIONAL OPTIONS, BUT NOT REQUIRED FOR FALL

- MA 1030 & 1031 or MA 1032 or ALEKS

*** ONE SEMESTER OF 3000 LEVEL OR HIGHER LANGUAGE COURSE CAN REPLACE UN1025

- UN1015 COMPOSITION (3 CREDITS)
- UN1025 GLOBAL ISSUES (3 CREDITS)

3 TOTAL CREDITS of Co-Curriculars are required. They last half a semester, and you can take them during any track.

- Co-cur Unit (.5 CREDIT)
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** Indicates optional elective suggestion
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S INDICATES COURSE IS OFFERED SPRING SEMESTER
Su INDICATES COURSE IS OFFERED SUMMER SEMESTER

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Updated: 02/28/2023
**PROFESSIONAL ELECTIVE SUGGESTIONS**

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Prerequisites</th>
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<tr>
<td>KIP 2600</td>
<td>Intro to Public Health</td>
<td>2</td>
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<tr>
<td>PSY 2300</td>
<td>Developmental Psychology</td>
<td>3</td>
<td>Spring, Summer</td>
<td>PSY2000</td>
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<td>BL2200</td>
<td>Genetics</td>
<td>3</td>
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<td>BL1040</td>
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<tr>
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<td>Organic Chemistry I (Lab CH2411)</td>
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<td>CH2420</td>
<td>Organic Chemistry II (Lab CH2421)</td>
<td>5</td>
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<td>CH2410 &amp; CH2411</td>
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<td>KIP4740</td>
<td>Epidemiology</td>
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<tr>
<td>KIP4720</td>
<td>Exercise Pharmacology</td>
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<td>Fall</td>
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<tr>
<td>BL1710</td>
<td>Medical Terminology</td>
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<td>Fall</td>
<td>BL1040 &amp; BL100</td>
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<tr>
<td>BL3210</td>
<td>Microbiology</td>
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<td>BL1040 or BL2020</td>
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<td>BL3640</td>
<td>General Immunology</td>
<td>3</td>
<td>Fall, Summer</td>
<td>BL1040 or BL2020</td>
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<tr>
<td>BL4044</td>
<td>Human Pathophysiology</td>
<td>3</td>
<td>Spring (Alternate Yrs)</td>
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<td>BL4380</td>
<td>Cardiopulmonary Physiology</td>
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<td>BL2020</td>
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<td>HU2700</td>
<td>Intro to Philosophy</td>
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<td>PSY3030</td>
<td>Abnormal Psychology</td>
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<td>On Demand</td>
<td>PSY2000</td>
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<tr>
<td>HU3711</td>
<td>Biomedical Ethics</td>
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<td>UN1015 &amp; UN1025</td>
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<td>Interpersonal Communication</td>
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<td>FW2100</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
<td>Spring</td>
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</table>

**24 Free Elective Credits Required**

**GENERAL EDUCATION REQUIREMENTS**

A. CORE COURSES (12 CREDITS)

1. **UN1015** (COMPOSITION)
2. **UN1025** (GLOBAL ISSUES)
3. CRITICAL AND CREATIVE THINKING (Goal 4) *
4. SOCIAL RESPONSIBILITY AND ETHICAL REASONING (Goal 8) **

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<tr>
<th>GOAL 4 LIST</th>
<th>GOAL 8 LIST</th>
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<tbody>
<tr>
<td>FA2330</td>
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<td>SS2200</td>
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<td>HU2130</td>
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<td>HU2503</td>
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B. HASS COURSES (12 CREDITS) (General Ed Website, left)

1. SECOND COURSE IN COMMUNICATION/COMP __________________________________
2. HU OR FA COURSE (HASS LIST) _________________________________
3. SS OR EC OR PSY COURSE (HASS LIST) _____________________________
4. ANY HASS OR HASS RESTRICTED COURSE (HASS LIST) __________________"

- 6 credits must be upper division 3000-4000 level courses
- No more than 3 credits from the HASS Restricted list can be used to satisfy HASS requirements.
- Each course can satisfy only one requirement.

C. CO-CURRICULAR ACTIVITIES (3 UNITS)

<table>
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<th>PE/FA/AR/AF</th>
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UNDERGRADUATE CATALOG: http://www.mtu.edu/catalog/undergraduate/course-descriptions/

GENERAL EDUCATION: http://www.mtu.edu/provost/academic-policies/general-education/programs/

CO-CURRICULAR LIST: http://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/