










PRE-PHYSICAL THERAPY, EMPHASIS (BIOMECHANICS)

The Pre-Physical Therapy area of emphasis is designed for students wishing to apply for professional physical therapy programs. Adding this area of emphasis may require students to take beyond 15 hours per semester or to take summer classes in order to complete their degree program in four years.

Course Requirements


 - General Education Course


 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

| Code | Title | Credit Hours |
|--|--|--------------|
| CHM 211  | Principles of Chemistry I ¹ | 3 |
| CHM 217  | Principles of Chem Lab I | 2 |
| CHM 212  | Principles Chemistry II | 3 |
| CHM 218  | Principles of Chem Lab II | 2 |
| BSC 120  | Principles of Biology I | 3 |
| BSC 120L  | Principles of Biology I Lab | 1 |
| BSC 121  | Principles of Biology II | 3 |
| BSC 121L  | Prin of Biology II Lab | 1 |
| PSY 311 | Child Development | 3 |
| PSY 312 | Adult Development | 3 |
| Total Credit Hours | | 24 |





¹ CHM 111 may be required based on pre-requisites or placement exam.

Semester Plan

 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.







First Year

| First Semester | | Credit Hours |
|--|---|--------------|
| HS 200  | Comp Medical Terminology (CT) | 3 |
| FYS 100 | First Yr Sem Critical Thinking | 3 |
| ENG 101  | Beginning Composition | 3 |
| UNI 100 | Freshman First Class | 1 |
| MTH 127  or MTH 130  | College Algebra-Expanded or College Algebra | 3-5 |

Credit Hours 13-15

Second Semester







| | | |
|----------|-------------------|---|
| BSC 227 | Human Anatomy | 3 |
| BSC 227L | Human Anatomy Lab | 1 |

| | | |
|---|---|---|
| HS 265  | Fund Video Analysis Mvmt (CT) | 3 |
| ENG 201  | Advanced Composition | 3 |
| PSY 201  | Introductory Psychology (CT) | 3 |
| MTH 122  | Plane Trigonometry | 3 |
| CHM 211  & CHM 217  | Principles of Chemistry I and Principles of Chem Lab I ¹ | 5 |

Credit Hours 21



Second Year

First Semester

| | | |
|---|--|---|
| BSC 228  | Human Physiology | 3 |
| BSC 228L  | Human Physiology Lab | 1 |
| HS 365 | Functional Kinesiology | 3 |
| HS 365L | Functional Kinesiology Lab | 1 |
| PSY 311 | Child Development | 3 |
| PHY 201  | College Physics I | 3 |
| PHY 202  | General Physics I Laboratory | 1 |
| CHM 212  & CHM 218  | Principles Chemistry II and Principles of Chem Lab II ¹ | 5 |

Credit Hours 20



Second Semester

| | | |
|---|------------------------------|---|
| HS 215 | Intro to Athletic Training | 3 |
| HS 222 | HLth Prov First Aid/CPR/AED | 3 |
| ESS 345 | Exercise Physiology | 3 |
| PHY 203  | College Physics II | 3 |
| PHY 204  | General Physics 2 Laboratory | 1 |
| CMM Elective | | 3 |

Credit Hours 16



Third Year

First Semester

| | | |
|--|---|---|
| HS 465 | Biomechanical Analy of Mvmt | 3 |
| HS 369 | Motor Learning | 3 |
| ESS 442 | Princ of Strength & Cond | 3 |
| ESS 443 | Prin of Strength Cond Lab | 1 |
| Humanities Elective | | 3 |
| BSC 120  & BSC 120L  | Principles of Biology I and Principles of Biology I Lab | 4 |

Credit Hours 17

Second Semester


| | | |
|--|---|---|
| HS 435 | Biomech Instrument Mat Lab | 3 |
| HS 464 | Pathomechanics | 3 |
| HS 478 | Research Practicum Biomechanic | 3 |
| Social Science Elective | | 3 |
| Fine Arts Elective | | 3 |
| BSC 121  & BSC 121L  | Principles of Biology II and Prin of Biology II Lab | 4 |

Credit Hours 19

Fourth Year

First Semester

| | | |
|--------|------------------------|---|
| HS 475 | Trends in Biomechanics | 3 |
| HS 410 | Organ Admin in Kines | 3 |
| HS 405 | Sport Psychology | 3 |

| | | |
|---|---------------------------|----------------|
| DTS 210 | Nutrition | 3 |
| PSY 312 | Adult Development | 3 |
| Credit Hours | | 15 |
| Second Semester | | |
| HS 495 | Trends in Biomechanics II | 3 |
| ESS 220 | Fitness and Wellness | 3 |
| PSY 223  | Elem Behavioral Stat | 3 |
| Elective | | 3 |
| Elective | | 3 |
| Credit Hours | | 15 |
| Total Credit Hours | | 136-138 |

¹ May be taken in Summer.