

# PRE-MEDICINE/BIOLOGY OPTION

This option is offered within the following major(s):

- Biology - College of Science (<http://catalog.oregonstate.edu/college-departments/science/school-life-sciences/integrative-biology/biology-bs-hbs/>)

The Pre-Medicine/Biology option is designed to meet the requirements for most medical schools in the U.S., but students should consult the requirements for specific schools before they apply because requirements can change. The option can also be used to meet the requirements for physician assistant, pharmacy and some other health professions. The option couples the comprehensive biological sciences background of the Biology major with intensive physiology laboratory experiences and important social science requirements. Dedicated health profession advisors work with Pre-Medicine/Biology option students to integrate essential professional experiences during their time at OSU.

## Option Code: 714

Options in the Biology major require 15 or fewer additional credits (one term) beyond the basic Biology major, and most students can complete the additional Pre-Medicine/Biology option course work in four years. The Pre-Medicine option requires a 3.0 or higher cumulative GPA in major and option course work. Courses used to satisfy the Pre-Medicine option requirements also satisfy the Biology and Society, Physics/Computer Science and Quantitative Applications, Physiology, Writing Intensive Course and Experiential Learning or Integrative Biology Elective requirements in the Biology major. Several courses may also be used to satisfy areas of the baccalaureate core.

Students may not pursue either the Pre-Medicine, Pre-Dentistry, Pre-Veterinary Medicine or Physiology and Behavior options within the Biology major—no dual combinations of these options are permitted.

Students interested in private practice should also consider taking BA 215 or BA 260.

For further information, see MyDegrees or the Integrative Biology website (<http://ib.oregonstate.edu>).

| Code                                  | Title   | Credits |
|---------------------------------------|---|---------|
| <b>Core</b>                           |   |         |
| BI 109                                | HEALTH PROFESSIONS: MEDICAL   | 1       |
| PHAR 210                              | TERMINOLOGY OF THE HEALTH SCIENCES (recommended)  | 2       |
| PHL 205<br>or PHL 444/REL 444         | *ETHICS<br>*BIOMEDICAL ETHICS   | 4       |
| PSY 201<br>& PSY 202                  | *GENERAL PSYCHOLOGY<br>and *GENERAL PSYCHOLOGY  | 8       |
| SOC 204<br>or ECON 201                | *INTRODUCTION TO SOCIOLOGY (required for pre-medical students)<br>*INTRODUCTION TO MICROECONOMICS | 3-4     |
| PH 201<br>& PH 202<br>& PH 203        | *GENERAL PHYSICS<br>and *GENERAL PHYSICS<br>and *GENERAL PHYSICS                                  | 15      |
| <b>Writing Intensive Course (WIC)</b> |   |         |
| Select one course from the following: |   | 3-4     |
| BI 319                                | *THEORY, PRACTICE AND DISCOURSE IN THE LIFE SCIENCES  |         |

|   |   |       |
|---|---|-------|
| MB 385  | *EMERGING INFECTIOUS DISEASES AND EPIDEMICS   |       |
| HSTS 417  | **HISTORY OF MEDICINE   |       |
| <b>Medicine, Health and Society</b>   |   |       |
| Select one course from the following:   |   | 3-4   |
| ANTH 352  | *ANTHROPOLOGY, HEALTH, AND ENVIRONMENT  |       |
| ANTH 383  | *INTRODUCTION TO MEDICAL ANTHROPOLOGY   |       |
| BB 332  | *MOLECULAR MEDICINE   |       |
| BI 420  | *VIRUSES IN MODERN SOCIETY  |       |
| H 210   | *INTRODUCTION TO THE HEALTH CARE SYSTEM   |       |
| H 225   | *SOCIAL AND INDIVIDUAL HEALTH DETERMINANTS  |       |
| H 312   | *HIV/AIDS AND STIS IN MODERN SOCIETY  |       |
| H 333   | *GLOBAL PUBLIC HEALTH   |       |
| HSTS 416  | *HISTORY OF MEDICINE PRE-1800   |       |
| MB 330  | *DISEASE AND SOCIETY  |       |
| <b>Physiology</b>   |   |       |
| Select one of the following tracks:   |   | 14-15 |
| <i>Comparative Vertebrate Track</i>   |   |       |
| Z 422<br>or Z 425   | COMPARATIVE/FUNCTIONAL VERTEBRATE ANATOMY<br>EMBRYOLOGY AND DEVELOPMENT   |       |
| Z 431   | VERTEBRATE PHYSIOLOGY I   |       |
| Z 432<br>& Z 442  | VERTEBRATE PHYSIOLOGY II<br>and VERTEBRATE PHYSIOLOGY LABORATORY  |       |
| <i>Human Track</i>  |   |       |
| BI 331<br>& BI 332<br>& BI 333  | ADVANCED HUMAN ANATOMY AND PHYSIOLOGY<br>and ADVANCED HUMAN ANATOMY AND PHYSIOLOGY<br>and ADVANCED HUMAN ANATOMY AND PHYSIOLOGY   |       |
| BI 341<br>& BI 342<br>& BI 343  | ADVANCED HUMAN ANATOMY AND PHYSIOLOGY<br>LABORATORY<br>and ADVANCED HUMAN ANATOMY AND PHYSIOLOGY<br>LABORATORY<br>and ADVANCED HUMAN ANATOMY AND PHYSIOLOGY<br>LABORATORY |       |
| <b>Experiential Learning or Biological Science/Psychology Elective Courses</b>                                  |   |       |
| Select one of the following tracks:   |   |       |
| <i>Track I Experiential Learning Credits</i>  |   |       |
| Select any combination of three credits from the following or GS 410 Medical Preceptorship credits by approval: |   | 3     |
| BI 309  | TEACHING PRACTICUM (by approval)  |       |
| BI 401  | RESEARCH AND SCHOLARSHIP (by approval)  |       |
| BI 409  | ADVANCED TEACHING PRACTICUM (by approval)   |       |
| <i>Track II Biological Science/Psychology Elective</i>  |   |       |
| Select one course from the following:   |   | 3-4   |
| BB 460  | ADVANCED CELL BIOLOGY   |       |
| BI 451  | FUNCTIONAL ANATOMY OF THE HUMAN MUSCULAR SYSTEM (by application only - limited summer enrollment)   |       |
| BI 485  | MONSTER BIOLOGY   |       |
| BI 495  | DISEASE ECOLOGY   |       |
| BHS 415/VMB 415   | ONE HEALTH IN PRACTICE  |       |
| MB 416  | IMMUNOLOGY (MB 417 is optional)   |       |
| MB 436  | THE HUMAN MICROBIOME  |       |
| MB 480  | GENERAL PARASITOLOGY  |       |
| PSY 350   | HUMAN LIFESPAN DEVELOPMENT  |       |
| PSY 381   | ABNORMAL PSYCHOLOGY   |       |
| PSY 433   | PSYCHOPHARMACOLOGY  |       |
| TOX 411   | FUNDAMENTALS OF TOXICOLOGY  |       |
| Z 425   | EMBRYOLOGY AND DEVELOPMENT (if not used to complete a requirement above)  |       |
| Z 438<br>or BB 360  | BEHAVIORAL NEUROBIOLOGY<br>INTRODUCTION TO NEUROSCIENCE   |       |
| Total Credits   |   | 59-64 |

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Baccalaureate Core Course (BCC)

2 Pre-Medicine/Biology Option

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Writing Intensive Course (WIC)

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