PREMEDICINE/PREDENTISTRY

Majors:

- Bachelor of Science, Predentistry (p. 1)
- Bachelor of Science, Premedicine (p. 3)

Minor:

• Medicine and Society (p. 4)

The Bachelor of Science with a major in premedicine (MED) or predentistry (DEN) is an interdisciplinary curriculum of study. It is distinctively designed to provide a science-based, diverse education as a preparation for admission to any of the health professional schools including medical, dental, physician assistant, optometry, pharmacy, veterinary, and chiropractic. Courses in biology, chemistry, mathematics, and physics comprise the science core of the major. A substantial complement of humanities and social sciences courses are also required. Within this framework the curriculum is flexible and can be tailored to suit personal interests. During the first two years, students enroll in courses appropriate for entry into professional schools while they also fulfill basic University requirements.

Admission to professional schools depends upon many factors in addition to the curriculum or major. Academic standing, performance on standardized examinations, practical experience relevant to the profession of interest, and adherence to application procedures are all important. The Premedical Programs Office addresses these factors through a comprehensive approach to pre-health care education.

Along with the administration of the DEN and MED majors, the Premedical Programs office acts as the focal point for all matters related to admission to any allied health care professional school. It is an information clearing house, functions as a liaison with professional schools, and coordinates the application process. The Premedical Programs Office also coordinates a number of internships, health related student organizations, and community based clinical opportunities for students. Students in any major planning to apply to professional schools are urged to maintain a close relationship with this office.

The University automatically enrolls entering premedical or predental majors into special orientation classes, and identifies them to the Premedical Programs office. Members of the Premedical/Predental Advisory Committee advise these students. However, advising services are available to all preprofessional students regardless of their major. Students in other majors may elect to have committee members serve as their secondary advisors; such students should identify themselves to the Premedical Programs office.

In addition to providing counseling, Premedical Programs offers a seminar series, clinical opportunities, grants for health care related experiences, and scholarships. Since admission to professional schools is highly selective, the program monitors the academic progress of MED/ DEN majors, and provides feedback at the end of the first and second year. Transfers to other majors, particularly to science majors, can usually be accommodated during the first two years without affecting normal progress towards graduation.

FACULTY LISTINGS (https://udayton.edu/artssciences/academics/ premedical/faculty-staff.php) Bachelor of Science, Predentistry (DEN) minimum 120 hours

The Common Academic Program (CAP) is an innovative curriculum that is the foundation of a University of Dayton education. It is a learning experience that is shared in common among all undergraduate students, regardless of their major. Some CAP requirements must be fulfilled by courses taken at UD (e.g., Capstone and Diversity and Social Justice). Some major requirements must also be fulfilled by courses taken at UD. Students should consult with their advisor regarding applicability of transfer credit to fulfill CAP and major program requirements.

Common Academic Program (CAP)¹

First-Year Humani	ities Commons ²	12 cr. hrs.
HST 103	Introduction to Global Historical Studies	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Introduction to Philosophy	
ENG 100	Writing Seminar I ³	
Second-Year Writi	ng Seminar ⁴	0-3
		cr. hrs.
ENG 200	Writing Seminar II	
Oral Communicati	ion	3
		cr.
		hrs.
CMM 100	Principles of Oral Communication	
Mathematics		3
		Cr. bre
Social Science		3
		cr.
		hrs.
Arts		3
		cr.
	c.	hrs.
Natural Sciences	5	7
		Cr. hre
Crossing Boundar	ies	1113.
crossing Doundar		to
		12
		cr.
		hrs.
Faith Traditions	5	
Practical Ethica	al Action	
Inquiry		
Integrative		
Advanced Study		
Philosophy and	l/or Religious Studies (6 cr. hrs.)	
Historical Stud	ies (3 cr. hrs.) °	

Diversity and Social Justice ⁷	3
	cr.
	hrs.
Major Capstone ⁸	0-6
	cr.
	hrs.

¹ The credit hours listed reflect what is needed to complete each CAP component. However, they should not be viewed as a cumulative addition to a student's degree requirements because many CAP courses are designed to satisfy more than one CAP component (e.g., Crossing Boundaries and Advanced Studies) and may also satisfy requirements in the student's major.

- ² May be completed with ASI 110 and ASI 120 through the Core Program.
- ³ May be completed with ENG 100A and ENG 100B, by placement.
- ⁴ May be completed with ENG 114 or ENG 198 or ASI 120.
- ⁵ Must include two different disciplines and at least one accompanying lab.
- ⁶ May be completed with ASI 110 and ASI 120 through the Core Program.
 ⁷ May not double count with First-Year Humanities Commons, Second-Year Writing, Oral Communication, Social Science, Arts, or Natural Sciences CAP components, but may double count with courses taken to satisfy other CAP components and/or courses taken in the student's major.
- ⁸ The course or experience is designed by faculty in each major; it may, or may not, be assigned credit hours.

Major Requireme	nts	64
Satisfies CAP Ma	thematics and CAP Natural Science	
BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 420	Biochemistry	3
CHM 420L	Biochemistry Lab for the Medical Sciences	1
MTH 148 & MTH 149 or MTH 168	Introductory Calculus I and Introductory Calculus II Analytic Geometry & Calculus I	6
& MTH 169	and Analytic Geometry & Calculus II	
PHY 201 & PHY 202 or PHY 206 & PHY 207	College Physics I and College Physics II ² General Physics I - Mechanics and General Physics II - Electricity & Magnetism	6
	Fluids	-
PHY 201L	College Physics Laboratory I	1
PHY 202L	General Physics Laboratory	1
MED 339	International Medical Experience	1

or MED 230	Community Pre-Dental Experience	
MED 299	Sophomore Seminar	1
MED 480	Pre-Medicine Capstone (Satisfies CAP Major Capstone)	1
Select one course	e from:	3
MTH 207	Introduction to Statistics	
MTH 367	Statistical Methods I	
PSY 216	Elementary Statistics	
Select five science	e courses, two with accompanying laboratories,	17
from: ³		
BIO 309	Comparative Anatomy of the Vertebrates	
& 309L	and Comparative Anatomy Laboratory	
BIO 312	General Genetics	
& 312L	and Genetics Laboratory	
BIO 403	Physiology I	
& 403L	and Physiology Laboratory I	
BIO 404		
BIU 411 8. /111	General Microbiology	
RIO 415	Neurobiology	
& 415	and Neurobiology Laboratory	
BIO 427		
BIO 439	Analysis & Interpretation of Biological Data	
BIO 440	Cell Biology	
& 440L	and Cell Biology Laboratory	
BIO 442	Developmental Biology	
& 442L	and Developmental Biology Laboratory	
BIO 445	Evolution & Development	
BIO 462	Molecular Biology	
BIO 466	Biology of Infectious Disease	
BIO 470	Cancer Biology	
BIO 475	Human Anatomy	
& 475L	and Human Anatomy Laboratory	
BIO 480	Principles of Microscopy	
& 480L	and Principles of Microscopy Laboratory	
CHM 201	Quantitative Analysis	
& 201L	and Quantitative Analysis Laboratory	
CHM 302	Physical Chemistry	
CHM 427	Medicinal Chemistry	
CHM 451	General Biochemistry I	
CHM 452	General Biochemistry II	
Proadth		
	Introduction to the University Experience	1
Flootives ^{4, 5}	introduction to the oniversity Experience	10
ENC Elective ⁶		2
Coloct one course	from (Catiofica CAD Dractival Ethical Action and	3
Adv Studies in PH	IL or REL)	3
PHL 312	Ethics	
PHL 315	Medical Ethics	
REL 365	Christian Theology and Environmental Ethics	
BEI 367	Christian Ethics & Health Care Issues	

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- ¹ Well qualified students are advised to take MTH 168-MTH 169.
- ² Well qualified students are advised to take PHY 206-PHY 207-PHY 208 lecture sequence with PHY 201L and PHY 202L.
- ³ The elective courses must be directly related to the primary field of interest.
- ⁴ Only general elective courses can be taken under Grading Option Two.
- ⁵ Courses in graphic design, studio art, or performing arts are recommended.
- ⁶ Select from any 300 or 400 level ENG course.

Bachelor of Science, Premedicine (MED) minimum 120 hours

The Common Academic Program (CAP) is an innovative curriculum that is the foundation of a University of Dayton education. It is a learning experience that is shared in common among all undergraduate students, regardless of their major. Some CAP requirements must be fulfilled by courses taken at UD (e.g., Capstone and Diversity and Social Justice). Some major requirements must also be fulfilled by courses taken at UD. Students should consult with their advisor regarding applicability of transfer credit to fulfill CAP and major program requirements.

Common Academic Program (CAP)¹

First-Year Human	ities Commons ²	12 cr. hrs.
HST 103	Introduction to Global Historical Studies	
REL 103	Introduction to Religious and Theological Studies	
PHL 103	Introduction to Philosophy	
ENG 100	Writing Seminar I ³	
Second-Year Writi	ng Seminar ⁴	0-3 cr. hrs.
ENG 200	Writing Seminar II	
Oral Communicat	ion	3 cr. hrs.
CMM 100	Principles of Oral Communication	
Mathematics		3 cr. hrs.
Social Science		3 cr. hrs.
Arts		3 cr. hrs.
Natural Sciences	5	7 cr. hrs.
Crossing Boundar	ies	up to 12 cr. hrs.
Faith Tradition	8	

Practical Ethical Action

Inquiry	
Integrative	
Advanced Study	
Philosophy and/or Religious Studies (6 cr. hrs.)	
Historical Studies (3 cr. hrs.) ⁶	
Diversity and Social Justice ⁷	3
	cr.
	hrs.
Major Capstone ⁸	0-6
	cr.
	hrs.

- ¹ The credit hours listed reflect what is needed to complete each CAP component. However, they should not be viewed as a cumulative addition to a student's degree requirements because many CAP courses are designed to satisfy more than one CAP component (e.g., Crossing Boundaries and Advanced Studies) and may also satisfy requirements in the student's major.
- ² May be completed with ASI 110 and ASI 120 through the Core Program.
- ³ May be completed with ENG 100A and ENG 100B, by placement.
- ⁴ May be completed with ENG 114 or ENG 198 or ASI 120.
- ⁵ Must include two different disciplines and at least one accompanying lab.
- ⁶ May be completed with ASI 110 and ASI 120 through the Core Program.
 ⁷ May not double count with First-Year Humanities Commons, Second-Year Writing, Oral Communication, Social Science, Arts, or Natural Sciences CAP components, but may double count with courses taken to satisfy other CAP components and/or courses taken in the student's major.
- ⁸ The course or experience is designed by faculty in each major; it may, or may not, be assigned credit hours.

Major Requirements

Satisfies CAP Mathematics and Natural Science

BIO 151 & 151L	Concepts of Biology I: Cellular & Molecular Biology and Concepts of Biology Laboratory I: Cellular & Molecular Biology	4
BIO 152 & 152L	Concepts of Biology II: Evolution & Ecology and Concepts of Biology Laboratory II: Evolution & Ecology	4
CHM 123 & 123L	General Chemistry and General Chemistry Laboratory	4
CHM 124 & 124L	General Chemistry and General Chemistry Laboratory	4
CHM 313 & 313L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 314 & 314L	Organic Chemistry and Organic Chemistry Laboratory	4
CHM 420	Biochemistry	3
CHM 420L	Biochemistry Lab for the Medical Sciences	1
MTH 148 & MTH 149	Introductory Calculus I and Introductory Calculus II	6
or MTH 168 & MTH 169	Analytic Geometry & Calculus I and Analytic Geometry & Calculus II	
PHY 201 & PHY 202	College Physics I and College Physics II ²	6

ENG Elective 5

or PHY 206 & PHY 207 & PHY 208	General Physics I - Mechanics and General Physics II - Electricity & Magnetism and General Physics III- Thermodynamics, Waves	, and
	Fluids 2	
PHY 201L	College Physics Laboratory I ²	1
PHY 202L	General Physics Laboratory	1
MED 299	Sophomore Seminar	1
MED 210	Premed Community Health Experience	1
or MED 220	Hospital Elder Life Program	
or MED 339	International Medical Experience	
MED 480	Pre-Medicine Capstone (Satisfies CAP Major Capstone)	1
Select one cours	se from:	3
MTH 207	Introduction to Statistics	
MTH 367	Statistical Methods I	
PSY 216	Elementary Statistics	
Select five scien from: ³	ce courses, two with accompanying laboratories,	17
BIO 309 & 309L	Comparative Anatomy of the Vertebrates and Comparative Anatomy Laboratory	
BIO 312 & 312L	General Genetics and Genetics Laboratory	
BIO 403 & 403L	Physiology I and Physiology Laboratory I	
BIO 404	Physiology II	
BIO 411	General Microbiology	
& 411L	and General Microbiology Laboratory	
BIO 415 & 415L	Neurobiology and Neurobiology Laboratory	
BIO 427	Immunology	
BIO 439	Analysis & Interpretation of Biological Data	
BIO 440 & 440L	Cell Biology and Cell Biology Laboratory	
BIO 442 & 442L	Developmental Biology and Developmental Biology Laboratory	
BIO 445	Evolution & Development	
BIO 462	Molecular Biology	
BIO 466	Biology of Infectious Disease	
BIO 470	Cancer Biology	
BIO 475	Human Anatomy	
& 475L	and Human Anatomy Laboratory	
BIO 480 & 480L	Principles of Microscopy and Principles of Microscopy Laboratory	
CHM 201	Quantitative Analysis	
& 201L	and Quantitative Analysis Laboratory	
CHM 302	Physical Chemistry	
CHM 427	Medicinal Chemistry	
CHM 451	General Biochemistry I	
CHM 452	General Biochemistry II	
Breadth		
ASI 150	Introduction to the University Experience	1
Electives ⁴		10

Select one course from: (Satisfies CAP Practical Ethical Action and Adv Studies in PHL or REL)		
PHL 312	Ethics	
PHL 315	Medical Ethics	
REL 365	Christian Theology and Environmental Ethics	
REL 367	Christian Ethics & Health Care Issues	
Social Sciences (includes CAP social science)		
Social and Behavioral Sciences		6
Total Hours to total at least		120
1		

Well qualified students are advised to take MTH 168-MTH 169.
 Well qualified students are advised to take PHY 206-PHY 207-PHY 208

lecture sequence with PHY 201L and PHY 202L.
 ³ The elective courses must be directly related to the primary field of interest.

⁴ Only general elective courses can be taken under Grading Option Two.

⁵ Select from any 300 or 400 level ENG course.

Minor in Medicine and Society (MDS)

The minor in Medicine and Society provides students with an interdisciplinary approach to 1) understanding contemporary complexities of accessing, delivering, and receiving healthcare, and 2) understanding how issues related to medicine, health, healing and illness impact individuals and communities.

The minor includes courses in the social science fields as well as humanities disciplines. For students planning a career in healthcare, understanding the ethical, anthropological, social, and psychological issues related to medicine can help them become more effective and compassionate providers.

For students with academic or professional interests in the intersections between health and society, the minor offers a collection of perspectives that can inform their future studiesand careers. The minor will engage students from all majors who want to better understand the institution and practice of medicine and its position in, effects on, and responses to society.

Students can earn the Medicine and Society minor by completing the two required courses and three additional courses from the approved course list.

The Medicine and Society minor is housed in Premedical Programs.

Required Courses ANT 336 Topics in Medical Anthropology 3 **SOC/SWK 380** Health and Inequality 3 Choose any 3 of the following: ¹ g CMM 372 **Communication for Health Professionals** CMM 411 Health Communication ENG 366 Health Literacy and Social Justice ENG 373 Writing in the Health Professions PHL 315 **Medical Ethics PSY 366** Health Psychology **REL 367 Christian Ethics & Health Care Issues** SWK 307 Mental Health Services SWK 330 Perspectives on Aging

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 $^{1\,}$ Additional courses may be approved by the Program Director.

- Bachelor of Science, Predentistry (p. 5)
- Bachelor of Science, Premedicine (p. 5)

Bachelor of Science, Predentistry

FallHoursSpringHoursASI 1501 BI0 1524BIO 1514 CHM 1244& 1511 (CAP Natural Science w/lab)& 124L4CHM 1234 MTH 1493a 123L3 REL 1033MTH 148 (Satisfies CAP Mathematics)3 REL 1033Or PHL103 (CAP103 (CAPHumanitiesCommons)3 REL 1033Or PHL103 (CAP103 (CAPHumanitiesCommons)3 REL 1033Or PHL103 (CAP103 (CAPHumanitiesCommons)1517Second Vear7103 (CAPFallHoursSpringHoursCHM 3134 CHM 3144& 313L& 314L14PHY 2014 PHY 2024& 201 (CAP Natural Science)& 202L202LENG 200 (CAP Writing Seminar)3 CGM 1003SCicne -elective3Science -elective15Third Vear1715FallHoursSpringHoursCHM 4204 MED 4801& 420L(CAP3CAP Inquiry / Social Science3 CAP Arts3English elective3 CAP Arts3English elective3 CAP Arts3English elective3 CAP Arts3English elective3 CaP Practical3Science elective3 CaP Practical3Science elective16Science - <t< th=""><th>First Year</th><th></th><th></th><th></th><th></th></t<>	First Year				
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	14	14
General elective	1 General elective	1
CAP Advanced Philosophy/Religious Studies	3 CAP Diversity and Social Justice	3
CAP Advanced Historical Studies	3 CAP Advanced Philosophy/ Religious Studies	3
CAP Faith Traditions	3 CAP Integrative	3

Total credit hours: 125

Bachelor of Science, Premedicine

First Year					
Fall	Hours		Spring	Hours	
ASI 150		1	BIO 152 & 152L		4
BIO 151		4	CHM 124		4
& 151L (CAP Natural Science w/lab)			& 124L		
CHM 123		4	MTH 149		3
& 123L					
MTH 148 (Satisfies CAP Mathematics)		3	REL 103 or PHL 103 (CAP Humanities Commons)		3
ENG 100 (CAP Humanities Commons)		3	REL 103 or PHL 103 (CAP Humanities Commons)		3
		15			17
Second Year					
Fall	Hours		Spring	Hours	
CHM 313		4	CHM 314		4
& 313L			& 314L		
PHY 201		4	PHY 202		4
& 201L (CAP Natural Science)			& 202L		
ENG 200 (CAP Writing Seminar)		3	CMM 100 (CAP)	3
		0	Communicati	on)	0
SSC 200 (CAP Social Science)		3	Science - elective		3
HST 103 (CAP Humanities Commons)		3	MED 299		1
		17			15
Third Year					
Fall	Hours		Spring	Hours	
CHM 420	nouro	4	MFD 480	neuro	0-1
& 420L			(CAP Capstone)		
MTH 207, 367, or PSY 216		3	Social Science - elective		3
Science elective		3	Science elective		3
CAP Inquiry / Social Science		3	Science elective		3
English elective		3	CAP Arts		3
MED 210, 220, or 339		0-1	CAP Practical Ethical Action	l n	3
		16-17			15-16

Fourth Year

Fall	Hours	Spring	Hours
Science elective w/lab		4 Science elective with lab	4
CAP Faith Traditions		3 CAP Integrative	3
CAP Advanced Historical Studies		3 CAP Advanced Philosophy/ Religious Studies	3
CAP Advanced Philosophy/Religious Studies		3 CAP Diversity and Social Justice	3
General elective		1 General elective	1
		14	14

Total credit hours: 123-125

Courses

MED 210. Premed Community Health Experience. 0-1 Hours

This course focuses on healthcare for under-served populations and provides students with the broader context around social and health inequities. Students meet for class most weeks of the semester and shadow and volunteer at a local medical clinic. Students will learn about the complexities of providing healthcare to under-served populations and develop interpersonal skills to be empathetic and informed advocates for patients. Students must complete some pre-semester requirements. Prerequisites: Sophomore status.

MED 220. Hospital Elder Life Program. 0-1 Hours

This course provides an experiential opportunity to volunteer with the Hospital Elder Life Program at Miami Valley Hospital. HELP is an innovative program designed to improve the hospital experience for older patients. Student volunteers will be trained to carry out bedside interventions and experience a high level of patient contact and responsibility. Students must complete all elements of the presemester training program, which includes online modules and a daylong orientation at MVH before the semester begins. Prerequisites: Sophomore status.

MED 230. Community Pre-Dental Experience. 1 Hour

This course focuses on healthcare for under-served populations and provides students with the broader context around social and health inequities. Students meet for class most weeks of the semester and shadow and volunteer at a local dental clinic. Students will learn about the complexities of providing health and dental care to under-served populations and develop interpersonal skills to be empathetic and informed advocates for patients. Students must complete some presemester requirements. Prerequisites: Sophomore status.

MED 277. Medical Documentation and Scribing. 2 Hours

This course is intended to orient students to the complexities of documentation in electronic medical record. In addition to learning the basics of documentation, students will be provided an opportunity to practice scribing into a medical record.

MED 299. Sophomore Seminar. 1 Hour

This course will orient students to the career options available for MED/ DEN majors, and guide students in planning for matriculation to health professional school. Prerequisite(s): Sophomore status.

MED 309. Medical Terminology for Premeds. 1 Hour

This course will instruct students on the basics of the language of medicine as taught by a practicing family physician. Real-world scenarios and case studies presented from actual clinical practice will enhance the motivated student's ability to learn medical terminology. Skills mastered in this class will remain with the future physician or healthcare worker for the remainder of their career.

MED 339. International Medical Experience. 1 Hour

Exploration of global health issues in preparation for an international experience with a partnering organization. Students must apply through the Center for International Programs and comply with requirements specific to the travel location and partnering organization.

MED 351. Healthy Children: Addressing Social Needs to Improve Health Outcomes. 1 Hour

Examination of the social needs of pediatric patients and families' social needs that most affect children's health. Will include methods of helping families connect with community resources that can assist in meeting these needs. Prerequisite(s): Sophomore Standing, basic orientation to healthcare or human service industries.

MED 401. Global Regulatory and Legal Framework of Quality in Industry and Business. 3 Hours

This course will provide an overview of regulations for the pharmaceutical, medical device, biotech, animal health, and consumer goods industries. Students will be introduced to fundamental concepts in the regulations related to clinical trial development, management, ethics, data integrity, data security, privacy, change control and validation.

MED 402. Product Development and Validation in Life Sciences. 3 Hours

This course will give students an understanding of the processes used in the pharmaceutical, medical device, and pharmaceutical industries for the development of new products. Students will learn the scientific principles used in such developments that ensure that products meet quality standards. Prerequisites: MED 401.

MED 403. Risk and Failure Analysis in Quality Science. 3 Hours

Through the use of historical risk analysis techniques, such as FMEA, Fault Tree, and 5 Why's, students will analyze a holistic set of data (inproduction, across product lines, across equipment, human variability, onmarket, on-stability, validation studies, change control, etc.) and identify effective corrective and preventative actions (CAPA). Prerequisites: MED 401.

MED 477. Honors Thesis Project. 3 Hours

First of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approval of University Honors Program.

MED 478. Honors Thesis Project. 3 Hours

Second of two courses leading to the selection, design, investigation, and completion of an independent, original Honors Thesis project under the guidance of a faculty research advisor. Restricted to students in the University Honors Program with permission of the program director and department chairperson. Students pursuing an interdisciplinary thesis topic may register for three semester hours each in two separate disciplines in consultation with the department chairpersons. Prerequisite(s): Approved 477; approval of University Honors Program.

MED 480. Pre-Medicine Capstone. 0-1 Hours

Seminar focuses on reflection and analysis of a clinical experience course, and preparation for applying to health professional school. Course offered in Spring semester. Junior or Senior status. MED or DEN major. Prerequisites: MED 210 or MED 220 or MED 230 or MED 339.