

# PRE-PROFESSIONAL

## Pre-Professional Curricula

Students expecting to qualify for admission into schools of medicine, dentistry, pharmacy, optometry, physical therapy, occupational therapy, theology, education, law, journalism, engineering, or veterinary medicine are urged to study carefully the particular requirements of the institutions from which they wish to obtain a degree.

Since society imposes leadership responsibilities on professionally trained people, professional schools recommend that pre-professional training should not be highly specialized but should stress 1) proficiency in language, 2) broad cultural background in the liberal arts or humanistic studies and in the social and behavioral sciences, and 3) completion of some basic science courses and familiarity with the use of the scientific laboratory method.

## Associate of Arts and Business Degree Pre-Law

There is no prescribed or required set of courses for pre-legal work. Students must have a B.A. or B.S. degree before beginning the professional study of law. There are no restrictions as to the field in which the degree is earned.

Generally, the objective of pre-legal study is to acquire a background useful in the study and practice of law. College study should prepare the student for law school by developing language comprehension and use, understanding of political, economic, social, and cultural institutions, and the ability to think logically and creatively. Courses promoting these objectives are included in the basic requirements for most undergraduate degrees. The choice of a major should be determined by the student's academic interest and professional objectives in law. Subjects providing a valuable background for the study or practice of law include accounting, business administration, economics, English, history, language, philosophy, political science, psychology, and sociology.

There are two major directions to obtain a pre-law degree: business or social science.

## Associate of Business Degree Pre-Law (Business)

This is a transfer degree.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
 General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - Laboratory Science . . . . . 8
  - MATH 2350 Business Calculus I . . . . . 4
  - MATH 2355 Business Calculus II . . . . . 4
2. Communication
  - CO/M 1010 Public Speaking . . . . . 3
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - Human behavior . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - Cultural environment . . . . . 3

4. General Education Electives  
 Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

- ACCT 2010 Principles of Accounting I . . . . . 4
- ACCT 2020 Principles of Accounting II . . . . . 4
- BADM 2010 Business Law I . . . . . 3
- BADM 2340 Business Organizations  
 and Government Regulations . . . . . or
- BADM 2350 Commercial Law . . . . . 3
- IMGT 2400 Intro to Information Management . . . . . 3
- ECON 1010 Principles of Macroeconomics . . . . . 3
- ECON 1020 Principles of Microeconomics . . . . . 3
- MGT 2100 Principles of Management . . . . . 3
- MKT 2100 Principles of Marketing . . . . . 3
- STAT 2050 Fundamentals of Statistics . . . . . or
- STAT 2070 Introductory Statistics  
 for Social Science . . . . . 5

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Associate of Arts/Associate of Science Degree Pre-Law (Social Sciences)

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits  
 General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - Laboratory science . . . . . 4
  - MATH 1000 Problem Solving . . . . . or
  - MATH 1400 Pre-Calculus Algebra . . . . . 3-4
2. Communication
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - Human behavior . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - World language . . . . . 8
4. General Education Electives  
 Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

Coursework should be selected from the following in consultation with an academic advisor: ANTH 1200, CO/M 1010, CO/M 1030, COSC 1200, CRMJ 2350, any ECON, any ENGL, any HIST, any MATH, any PHIL, any POLS except 2130, PSYC 1000, any STAT, any science.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.

## Associate of Arts/Associate of Science Degree Pre-Dentistry or Pre-Medicine

Pre-professional degree programs are designed to prepare students for entry into a bachelor degree program and then into their identified area of professional schooling. It is necessary for pre-professional students to work closely with an academic advisor to ensure that the requirements of the identified professional school(s) are met. For each pre-professional student, the degree program will be modified to provide the student with coursework that will best prepare them for their future studies and professional practice. Students expecting to qualify for admission into professional schools are urged to study carefully the particular requirements of the institution from which they wish to obtain a degree. Since society imposes leadership responsibilities on professionally trained people, most professional schools recommend that pre-professional training should stress 1) proficiency in language, 2) broad cultural background in the liberal arts or humanistic studies and in the social and behavioral sciences, and 3) completion of some basic science course and familiarity with the use of the scientific laboratory method.

This is a transfer degree program.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

#### 1. Exploration and Participation

BIOL 1000 Introduction to Biology I . . . . .	or
BIOL 1010 General Biology I . . . . .	4
BIOL 2022 Animal Biology . . . . .	or
BIOL 2023 Plant and Fungal Biology . . . . .	or
MOLB 2210 General Microbiology . . . . .	4
Mathematics . . . . .	6

#### 2. Communication

ENGL 1010 English I: Composition . . . . .	3
ENGL 1020 English II: Composition . . . . .	3

#### 3. Relationship with the World

Human behavior . . . . .	3
U.S. and Wyoming constitutions . . . . .	3
Cultural environment . . . . .	3

#### 4. General Education Electives

Must be chosen from areas 1, 2, or 3 above.

#### 5. Physical Education . . . . . 1

### Major Requirements

CHEM 1025 Chemistry I . . . . .	3
CHEM 1028 Chemistry Laboratory I . . . . .	1
CHEM 1035 Chemistry II . . . . .	3
CHEM 1038 Chemistry Laboratory II . . . . .	1
PHYS 1110 General Physics I . . . . .	4
PHYS 1120 General Physics II . . . . .	4
*World language . . . . .	8
Electives . . . . .	8

\* Students should refer to the requirements of their professional school or transfer institution.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Associate of Science Degree Pre-Medical Technology

This course of study prepares students to enter a baccalaureate program in medical technology.

### (Recommended Curriculum)

General Education (Minimum 32 hours) Hours

General education coursework can be completed from within or outside of the major field of study.

#### 1. Exploration and Participation

Included in the major requirements below

#### 2. Communication

ENGL 1010 English I: Composition . . . . .	3
ENGL 1020 English II: Composition . . . . .	3

#### 3. Relationship with the World

PSYC 1000 General Psychology . . . . .	4
U.S. and Wyoming constitutions . . . . .	3
Cultural environment . . . . .	3

#### 4. General Education Electives

Must be chosen from areas 1, 2, or 3 above.

#### 5. Physical Education . . . . . 1

### Major Requirements

BIOL 1000 Introduction to Biology I . . . . .	or
BIOL 1010 General Biology I . . . . .	4
BIOL 2022 Animal Biology . . . . .	or
BIOL 2023 Plant and Fungal Biology . . . . .	4
CHEM 1025 Chemistry I . . . . .	3
CHEM 1028 Chemistry Laboratory I . . . . .	1
CHEM 1035 Chemistry II . . . . .	3
CHEM 1038 Chemistry Laboratory II . . . . .	1
CHEM 2320 Organic Chemistry I . . . . .	3
CHEM 2325 Organic Chemistry Laboratory I . . . . .	1
CHEM 2340 Organic Chemistry II . . . . .	3
CHEM 2345 Organic Chemistry Laboratory II . . . . .	1
MATH 1400 Pre-Calculus Algebra . . . . .	4
MATH 1405 Pre-Calculus Trigonometry . . . . .	3
*MATH 2200 Calculus I . . . . .	5
MOLB 2210 General Microbiology . . . . .	4
MOLB 2220 Pathogenic Microbiology . . . . .	4
*PHYS 1110 General Physics I . . . . .	4
*PHYS 1120 General Physics II . . . . .	4

\* Students should refer to the requirements of their professional school or transfer institution.

A minimum of 64 approved semester hours are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.

## Associate of Arts/Associate of Science Degree Pre-Occupational Therapy

The pre-occupational therapy program at Casper College is designed to prepare students to transfer to a professional program at another institution and is not a certified occupational therapy assistant (COTA) program. Casper College has a partnership with the University of North Dakota providing students the opportunity to earn an entry-level Master's degree in Occupational Therapy while remaining on the Casper College Campus. Casper College students will work with a Casper College advisor prior to applying for entry to this program. The University of North Dakota MOT Program - Casper College site - is located in the Loftin Life Science Building, (307) 268-2613.

Students planning to transfer to schools other than UND should contact those schools to obtain transfer requirements, and should notify the pre-OT advisor so that appropriate course selections are made.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - BIOL 1000 Introduction to Biology I . . . . . 4
  - CHEM 1005 Basic Chemistry I . . . . . 3
  - CHEM 1006 Basic Chemistry Lab I . . . . . 1
  - Mathematics . . . . . 3
2. Communication
  - CO/M 1010 Public Speaking . . . . . 3
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - SOC 1000 Introduction to Sociology . . . . . 3
  - U.S. and Wyoming constitutions . . . . . 3
  - \*Cultural environment . . . . . 9
4. General Education Electives
  - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

- OCTH 2000 Intro to Occupational Therapy . . . . . 2
- PSYC 1000 General Psychology . . . . . 4
- PSYC 2300 Developmental Psychology . . . . . 3
- PSYC 2340 Abnormal Psychology . . . . . 3
- STAT 2050 Fundamentals of Statistics . . . . . 5
- ZOO 2040 Human Anatomy . . . . . 3
- ZOO 2041 Human Anatomy Lab . . . . . 1
- ZOO 2110 Human Physiology . . . . . 4
- \*World cultures . . . . . 3\*
- Electives . . . . . 4

\*UND/CC students will need to have completed 9 credit hours of humanities credit and 3 hours of world culture credit that is accepted by the University of North Dakota as transferable. Please work with pre-OT advisor to ensure appropriate course selection.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Associate of Science Degree Pre-Optometry

Pre-professional degree programs are designed to prepare students for entry into a bachelor degree program and then into their identified area of professional schooling. It is necessary for pre-professional students to work closely with an academic advisor to ensure that the requirements of the identified professional school(s) are met. For each pre-professional student, the degree program will be modified to provide the student with coursework that will best prepare them for their future studies and professional practice. Students expecting to qualify for admission into professional schools are urged to study carefully the particular requirements of the institution from which they wish to obtain a degree. Since society imposes leadership responsibilities on professionally trained people, most professional schools recommend that pre-professional training should stress 1) proficiency in language, 2) broad cultural background in the liberal arts or humanistic studies and in the social and behavioral sciences, and 3) completion of some basic science course and familiarity with the use of the scientific laboratory method.

This is a transfer degree program.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
  - BIOL 1000 Introduction to Biology I . . . . . or
  - BIOL 1010 General Biology I . . . . . 4
  - BIOL 2022 Animal Biology . . . . . or
  - BIOL 2023 Plant and Fungal Biology . . . . . or
  - MOLB 2210 General Microbiology . . . . . 4
  - Mathematics . . . . . 6
2. Communication
  - ENGL 1010 English I: Composition . . . . . 3
  - ENGL 1020 English II: Composition . . . . . 3
3. Relationship with the World
  - PSYC 1000 General Psychology . . . . . 4
  - U.S. and Wyoming constitutions . . . . . 3
  - Cultural environment . . . . . 3
4. General Education Electives
  - Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

- CHEM 1025 Chemistry I . . . . . 3
- CHEM 1028 Chemistry Lab I . . . . . 1
- CHEM 1035 Chemistry II . . . . . 3
- CHEM 1038 Chemistry Lab II . . . . . 1
- CHEM 2300 Introductory Organic Chemistry . . . . . or
- CHEM 2320 Organic Chemistry I . . . . . 3-4
- CHEM 2325 Organic Chemistry Laboratory I . . . . . 1
- \*MATH 2200 Calculus I . . . . . 5
- MOLB 2210 General Microbiology . . . . . 4
- MOLB 2220 Pathogenic Microbiology . . . . . 4
- PHYS 1110 General Physics I . . . . . 4
- PHYS 1120 General Physics II . . . . . 4

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.

\* Students should refer to the requirements of their professional school or transfer institution.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Associate of Science Degree Pre-Pharmacy

Students expecting to qualify for admission into schools of pharmacy are urged to study carefully the particular requirements of the institutions from which they wish to obtain a degree. Since society imposes leadership responsibilities on professionally trained people, professional schools recommend that pre-professional training should not be highly specialized but should stress 1) proficiency in language, 2) broad cultural background in the liberal arts or humanistic studies and in the social and behavioral sciences, and 3) completion of some basic science courses and familiarity with the use of the scientific laboratory method.

### (Recommended Curriculum)

General Education (Minimum 32 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	

1. Exploration and Participation  
Included in the major requirements below
2. Communication
 

ENGL 1010 English I: Composition . . . . .	3
ENGL 1020 English II: Composition . . . . .	3
3. Relationship with the World
 

Human behavior . . . . .	3
U.S. and Wyoming constitutions . . . . .	3
Cultural environment . . . . .	3
4. General Education Electives  
Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements (minimum 24 credits)

BIOL 1010 General Biology I . . . . .	4
BIOL 2022 Animal Biology . . . . .	or
BIOL 2023 Plant and Fungal Biology . . . . .	4
CHEM 1025 Chemistry I . . . . .	3
CHEM 1028 Chemistry Laboratory I . . . . .	1
CHEM 1035 Chemistry II . . . . .	3
CHEM 1038 Chemistry Laboratory II . . . . .	1
CHEM 2320 Organic Chemistry I . . . . .	3
CHEM 2325 Organic Chemistry Laboratory . . . . .	1
CHEM 2340 Organic Chemistry II . . . . .	3
CHEM 2345 Organic Chemistry Laboratory II . . . . .	1
MATH 2200 Calculus I . . . . .	5
MOLB 2210 General Microbiology . . . . .	4
MOLB 2220 Pathogenic Microbiology . . . . .	4
STAT 2050 Fundamentals of Statistics . . . . .	5
ZOO 2040 Human Anatomy . . . . .	3
ZOO 2041 Human Anatomy Lab . . . . .	1
ZOO 2110 Human Physiology . . . . .	4

\*\*\*Exact entry level course is determined by ACT or Compass scores. A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Associate of Science Degree Pre-Physical Therapy

Pre-professional degree programs are designed to prepare students for entry into a bachelor degree program and then into their identified area of professional schooling. It is necessary for pre-professional students to work closely with an academic advisor to ensure that the requirements of the identified professional school(s) are met. For each pre-professional student, the degree program will be modified to provide the student with coursework that will best prepare them for their future studies and professional practice. Students expecting to qualify for admission into professional schools are urged to study carefully the particular requirements of the institution from which they wish to obtain a degree. Since society imposes leadership responsibilities on professionally trained people, most professional schools recommend that pre-professional training should stress 1) proficiency in language, 2) broad cultural background in the liberal arts or humanistic studies and in the social and behavioral sciences, and 3) completion of some basic science course and familiarity with the use of the scientific laboratory method.

This is a transfer degree. This course curriculum transfers to the University of North Dakota.

### (Recommended Curriculum)

General Education (Minimum 32 hours)	Hours
General education coursework can be completed from within or outside of the major field of study.	

1. Exploration and Participation  
Included in the major requirements below
2. Communication
 

ENGL 1010 English I: Composition . . . . .	3
ENGL 1020 English II: Composition . . . . .	3
3. Relationship with the World
 

PSYC 1000 General Psychology . . . . .	4
U.S. and Wyoming constitutions . . . . .	3
Cultural environment . . . . .	3
4. General Education Electives  
Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

BIOL 1000 Introduction to Biology I . . . . .	or
BIOL 1010 General Biology I . . . . .	4
BIOL 2022 Animal Biology . . . . .	or
BIOL 2023 Plant and Fungal Biology . . . . .	or
MOLB 2210 Microbiology . . . . .	4
CHEM 1025 Chemistry I . . . . .	3
CHEM 1028 Chemistry Laboratory I . . . . .	1
CHEM 1035 Chemistry II . . . . .	3
CHEM 1038 Chemistry Laboratory II . . . . .	1
MATH 1400 Pre-Calculus Algebra . . . . .	4
MATH 1405 Pre-Calculus Trigonometry . . . . .	3

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.

PHYS 1110 General Physics I . . . . .	4
PHYS 1120 General Physics II . . . . .	4
PSYC 2300 Developmental Psychology . . . . .	3
PSYC 2360 Lifespan: Adulthood and Aging . . . . .	1
SOC 1000 Introduction to Sociology . . . . .	3
ZOO 2040 Human Anatomy . . . . .	3
ZOO 2041 Human Anatomy Lab . . . . .	1
ZOO 2110 Human Physiology . . . . .	4
*Fine arts and humanistic studies/ social sciences . .	9
*World cultures course . . . . .	3

\*Students should refer to the requirements of their professional school or transfer institution for course listing acceptable toward graduation at that institution. It is possible to receive an AS degree from Casper College with 70 hours completed although most professional schools require more than 70 hours of prerequisite course work. This course curriculum is from the University of North Dakota.

A minimum of 64 approved semester hours are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Associate of Science Degree Pre-Veterinary

This curriculum is designed to meet the general requirements for admission into the WUE school of veterinary medicine at Colorado State University or Washington State University. Admission requirements vary with each professional school. Therefore, students should determine, as soon as possible, which school of veterinary medicine they plan to attend. Then the student's program can be planned in such a way as to meet the specific requirements of the chosen professional school.

Because of the large number of required courses, many students are taking three years to complete this program.

This is a transfer degree.

### (Recommended Curriculum)

General Education (Minimum 32 credits) Credits

General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation
 

BIOL 1000 Introduction to Biology I . . . . .	or
BIOL 1010 General Biology I . . . . .	4
BIOL 2022 Animal Biology . . . . .	or
BIOL 2023 Plant and Fungal Biology . . . . .	4
MATH 1400 Pre-Calculus Algebra . . . . .	4
MATH 1405 Pre-Calculus Trigonometry . . . . .	3
2. Communication
 

CO/M 1010 Public Speaking . . . . .	3
ENGL 1010 English I: Composition . . . . .	3
ENGL 1020 English II: Composition . . . . .	3
3. Relationship with the World
 

Human behavior . . . . .	3
U.S. and Wyoming constitutions . . . . .	3
Cultural environment . . . . .	3
4. General Education Electives
 

Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

## Major Requirements

CHEM 2320 Organic Chemistry I . . . . .	3
CHEM 2325 Organic Chemistry Laboratory I . . . . .	1
MOLB 2210 General Microbiology . . . . .	4
MOLB 2220 Pathogenic Microbiology . . . . .	4
PHYS 1110 General Physics I . . . . .	4
PHYS 1120 General Physics II . . . . .	4
STAT 2050 Fundamentals of Statistics . . . . .	5
*Electives . . . . .	8

\*Prior to transfer, it is recommended that students complete CHEM 3750 Principles of Biochemistry (University of Wyoming course offered in Casper.).

The above curriculum will vary to some degree with the student's background and experience. For example, some students will not need the beginning mathematics courses and may go directly into calculus. This will save time and permit the student to complete additional courses. Recommended courses include animal production, genetics, microbiology, and comparative chordate anatomy.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

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