The Summary of Course Prerequisites is designed to supplement admission information provided by each institution. The colleges to which you apply may have additional requirements not summarized in this table. Contact each institution to which you wish to apply for a college brochure. This table is for use in 2012 for 2013 matriculation only and is subject to change. Please direct all questions regarding course prerequisites directly to the institution.
### Institutional Abbreviations for All AAVMC Member Institutions

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Bachelor's Degree Required  

X=Required Course; R=Recommended Course
AUB - Auburn University
Courses (Semester hours)

**Physics** with lab (8)
- Must have been completed in last 6 years.

**Biochemistry** (3)

**Biology I** with lab (4)

**Biology II** with lab (4)

**Fundamentals of chemistry** with lab (8)

**Organic chemistry** with lab (6)
- Must have been completed in last 6 years.

**Precalculus with trigonometry** (3)
- Waived if applicant has a BS/BA degree.

**English composition** (6)
- Waived if applicant has a BS/BA degree.

**Humanities / fine arts electives** (6)
- Waived if applicant has a BS/BA degree.

**Literature/history** (6)
- Waived if applicant has a BS/BA degree.

- Student must have at least one literature and one history course and must complete a 6 semester hour sequence in either literature or history

**Fine arts** (3)
- Waived if applicant has a BS/BA degree.

**Social and behavioral science electives** (9)
- Waived if applicant has a BS/BA degree.

**Science electives** (6)
- Must have been completed in last 6 calendar years.

- Science electives must be from the following list: genetics, microbiology, cell biology, comparative anatomy, histology, reproductive physiology, mammalian or animal physiology, parasitology, immunology or immunology.

**Animal nutrition** (3)
- Course may be taken as an on-line or correspondence course.

**Total semester hour credits** 75

UCD – University of California, Davis
Courses (Quarter Hours)

**Physics** (no lab) (one year) (6)

**Biochemistry** (no lab) upper division course (5)
- Upper-division courses are equivalent to one semester or one quarter.
General biology with lab (one year) (14)
General chemistry with lab (one year) (15)
Organic chemistry with lab (one year) (6)
Statistics (4)
English composition (4)
Humanities and social sciences (12)
Genetics (no lab) upper division course (4)
    Upper-division courses are equivalent to one semester or one quarter.
Additional English/literature (8)
Systemic physiology (no lab) upper division course (5)
    Upper-division courses are equivalent to one semester or one quarter.

Total quarter hour credits 83
Or

Total semester hour credits 55

CSU - Colorado State University
Courses (Semester Hours)
    Physics with a lab (4)
    Biochemistry (3) *(required prerequisite of Organic Chemistry)*
    Laboratory associated with a biological science course (1)
    Laboratory associated with a chemistry class (1)
    Statistics (3)
    English composition (3)
    Arts & humanities/behavioral & social science electives (12)
    Genetics (3)
    Electives (30)
    Science electives recommended

Total semester credit hours 60

COR – Cornell University
Courses (Semester Hours)
    Physics with laboratory (full year) (6)
        AP credit of 4 or higher allowed.
    Biochemistry (half year required, full year preferred) (4)
    Biology or zoology with laboratory (full year) (6)
General chemistry with laboratory (full year) (6)
AP credit of 4 or higher allowed.
Organic chemistry with laboratory (full year) (6)
English composition and literature (full year) (6)
Three credits of literature may be satisfied by a course in public speaking.
Microbiology with laboratory (3)
Elective (53)
Total semester credits 90

UFL – University of Florida
Courses (Semester Hours)
Biology – animal biology or zoology with laboratory; genetics; microbiology with laboratory (Biology – BSC 2010, BSC 2010L, BSC 2011, BSC 2011L; Microbiology – MCB3020, MCB 3020L; Genetics – PCB 3063 or AGR 3303 or ANS 3384) (15)
General chemistry – inorganic and organic with laboratory and biochemistry (General – CHM 2045, CHM 2045L, CHM 2046, CHM 2046L; or CHM2045, 2051 and CHM 2045, 2046L; Organic – CHM 2210, CHM 2211, CHM 2211L; or CHM 3217, CHM 3218, CHM 2211L Biochemistry – BCH 4024; or CHM 3218) (20)
Mathematics – calculus and statistics (Calculus – MAC 2311; Statistics – STA 2023) (7)
Physics – two semesters with laboratories (Physics – PHY 2053, PHY 2053L, PHY 2054, PHY 2054L or PHY 2048, 2048L, PHY 2049, 2049L (8)
English composition - two semesters (English – ENC 1101 and ENC 1102) (6)
Only English courses in Rhetoric or Composition will be accepted.
Humanities (9)
Any of the Authorized Courses for General Education listed in the University of Florida Schedule of Courses are acceptable.
Social sciences (6)
Any of the Authorized Courses for General Education listed in the University of Florida Schedule of Courses are acceptable.
Electives Variable credit hours
Agriculture, advanced biochemistry, analytical chemistry, computer science, economics, humanities, journalism, oral communication, political science, psychology, social sciences, statistics, etc.
Total minimum semester hour credits 79

UGA – University of Georgia
Courses (Semester Hours)
English (writing intensive) 6
Humanities and social studies 14
General biology with lab (for science majors) 8
Advanced biological science*  8
Chemistry with lab
   Inorganic  8
   Organic  8
Physics with lab  8
Biochemistry (lab not required)  3

*300/3000 level or higher biology courses that have general biology as a prerequisite. Nutrition, behavior and ecology courses typically do not count towards the advanced biological sciences requirement

Total semester credit hours 63

UIL – University of Illinois – Urbana
Courses (Semester Hours)
   Physics with laboratories (8)
   Biological sciences with laboratories (8)
   Chemical sciences including biochemistry; inorganic and organic chemistry with laboratories (16)
      Three laboratories required.
   English composition (6)
      Three hours of speech/communication can replace three hours of English composition.
      Waived with BS/BA degree.
   Humanities/social sciences (12)
      Waived with BS/BA degree.
   Junior/Senior level science courses (12)
      Include but not limited to advanced biology, anatomy, genetics, microbiology, physiology, zoology.
      Waived with BS/BA degree.
Total semester credit hours 62

ISU – Iowa State University
Courses (Semester Hours)
     General physics – 1 semester (2 quarters) with lab (4)
        First semester of a two-semester series with lab. Does not need to be calculus-based. Must include mechanics.
     Biochemistry (3)
     General biology – 1 year series (2 semesters or 3 quarters) with labs each term or individual courses with labs including one at the cellular/microbial level and one at the organism level (8)
General chemistry – 1 year series (2 semesters or 3 quarters) and one term lab (7)
Organic chemistry - 1 year series (2 semesters or 3 quarters) and one term lab (7)
English composition – 1 year of composition or writing emphasis courses. (6)
   May include business or technical writing.
Humanities and social sciences (8)
Genetics – Upper level (junior/senior) course which includes Mendelian and molecular genetics Animal breeding or livestock improvement courses generally do not fulfill this requirement(3)
Electives (8)
Oral communication – May include interpersonal or group communication or public speaking. (3)
   Acting and foreign language do not fulfill this requirement.
Mammalian anatomy or physiology (3)

Total semester credit hours 60

KSU – Kansas State University
Courses (Semester Hours)
   Physics I and II (8)
   Biochemistry (3)
   Principles of biology or zoology (4)
   Chemistry I and II (8)
   Organic chemistry with lab (5)
   Expository writing I and II (6)
   Humanities and/or social sciences (12)
   Electives (9)
   Animal genetics or general genetics (3)
   Microbiology with lab (4)
   Public speaking (2)

Total semester credit hours 64
   All upper level science courses must have been taken within six years of the date of enrollment in the professional program.

LSU – Louisiana State University
Courses (Semester Hours)
   General physics I & II (labs not required) (6)
   Biochemistry (appropriate course must have Organic Chemistry as its prerequisite.) (3)
   General biology/zoology courses with labs appropriate for pre-med or science majors (8)
   General chemistry I & II with labs (8)
Organic chemistry (lab not required) (3)
Mathematics (College-level algebra/trigonometry or higher) (6)
English composition I & II (6)
Microbiology with lab (appropriate course would be one specific for science/pre-vet majors.) (4)
Electives (20)
Speech communication (Public speaking or interpersonal communications) (3)

Total semester credit hours 66

MSU – Michigan State University
Courses (Semester Hours)
- Physics I and II with laboratory (8)
- Biochemistry (3)
  This should be a complete upper-division course in general biochemistry; half of a two-semester sequence will not meet this requirement.
- Biology I and II with laboratory (6)
- General chemistry with laboratory (3)
- Organic chemistry with laboratory (6)
- College algebra & trigonometry or pre-calculus or calculus (if that was the first math taken) (3)
- English composition (3)
- Humanities and social sciences (12)
- Genetics (4)
- Microbiology (3)
- Microbiology Laboratory (1)
- Nutrition (3)
- Eukaryotic cell biology (3)

Total semester credit hours 57

UMN – University of Minnesota
Courses (Semester Hours)
- Physics with lab (6-10)
- Biochemistry (no lab required) (3-5)
- General biology with lab (3-5)
- Zoology or animal biology with lab (or the 2nd semester of a two-term biology sequence) (3-5)
- General chemistry with lab (6-10)
- Organic chemistry with lab (two quarters or one semester) (3-5)
- College algebra, pre-calculus or calculus (3-5)
- English composition (or the graduation requirement of your college) (6-8)
Liberal Education (12-16)
Genetics (3-5)
Microbiology with lab (3-5)

Total semester hour credits Variable

MSS – Mississippi State University
Courses (Semester Hours)
Physics (can be Trig-based) (6)
Biochemistry (3)
General biology with lab (8)
General chemistry with lab (8)
Organic chemistry with lab (8)
Mathematics (college algebra or higher) (6)
English composition (6)
Humanities/fine arts/social and behavioral sciences (15)
Microbiology with lab (4)
Speech or technical writing (3)
Advanced (upper-level) science electives (12)
Total semester credit hours 79

UMO – University of Missouri
Courses (Semester Hours)
Physics (5)
Comprehensive course or courses. 5 hrs in only the first of a companion series will not suffice.
Biochemistry with organic chemistry pre-req (3)
Biological sciences (10)
College algebra or more advanced (3)
English composition or communication (6)
Social sciences or humanities (10)
Electives (10)
Total semester credit hours completed before applying 60

MEL – University of Melbourne
Courses (Semester Hours)
A Science degree, including at least one semester’s study in each of general/cellular biology and biochemistry
NCSU – North Carolina State University
Courses (Semester Hours)

- **Physics** with lab (8)
- **Biochemistry** (lab preferred) (3-4)
- **Biology** (or Zoology) with lab (4)
- **Chemistry, general** with labs (8)
- **Chemistry, organic** with labs (8)
- **Calculus or logic** (3)
- **Statistics** (3)
- **English composition/communications** or public speaking (6)
- **Humanities/social sciences** (6)
- **Genetics** (lab preferred) (3-4)
- **Microbiology** with lab (4)
- **Animal nutrition** (3)

**Total semester credit hours 59-61**

OHS – Ohio State University
Courses (Quarter Hours)

- **Physics** (with lab) (10)
- **Biochemistry** (5)
  - If Biochemistry is taught as a two-course sequence, both courses must be taken.
- **General biology** (with labs) (10)
- **General chemistry** (with labs) (15)
- **Organic chemistry** (no lab) (6)
  - Lab recommended but not required.
- **Math (algebra and trigonometry)** (5)
- **English composition** (5)
- **Humanities and social sciences** (20)
- **Genetics** (5)
  - General genetics including Mendelian (transmission) genetics and molecular genetics required.
- **Microbiology** (with lab) (5)
  - Must include introduction to virology & immunology.
- **Electives** (10)

**Total quarter credit hours 96**
Multiply semester hours by 1.5 to get quarter hours.

**OKS – Oklahoma State University**
Courses (Semester Hours)
- **Physics** (Physics I & II) (8-10)
- Biochemistry (3)
- Biological sciences, general zoology or equivalent & lab, biology elective for science majors (8)
- Chemistry I and II & lab (8-10)
- Organic chemistry I and II & lab, Must include aliphatic & aromatic compounds. (8-10)
- Mathematics, college algebra or higher level course; no statistics (3)
- English composition (6)
- English elective (may include speech, tech writing or literature) (3)
- Humanities/social sciences (6)
- Genetics (4-5)
- Microbiology & lab (5)
- Elective(s) If all of the above courses do not total 60 credit hours, science and/or business electives may be used. Credit hours will vary according to institution in which coursework is completed.
- Animal nutrition (3)

**Total semester credit hours (minimum) 64**

**ORS – Oregon State University**
Courses (Semesters)
- Physics sequence: 8 semester or 10 quarter hours
- Biochemistry: minimum of 1 course or course sequence
  - Upper division sequence is preferred.
- General biology sequence: 2 semester or 3 quarter hours
- General inorganic chemistry sequence with laboratories: 2 semesters or 2-3 quarter hours
- Organic chemistry sequence sufficient to meet requirements for upper division biochemistry: 1-2 semesters or 2-3 quarter hours
- Mathematics: Course or course sequence in college level algebra and trigonometry or higher level mathematics
- Statistics: 3 semester hours or 4 quarter hours
- English composition: 4 semester hours or 6 quarter hours
- Humanities/social sciences: 8 semester hours or 12 quarter hours
- Genetics: 3 semester hours or 4 quarter hours
  - Must include Mendelian and molecular genetics.
- Public speaking: 2 semester hours or 3 quarter hours
Biological sciences: At least 4 additional semester or 6 quarter credits
   Upper division courses with at least one laboratory
Physiology – animal or human: At least 2 semester or 3 quarter hours

UPA – University of Pennsylvania
Courses (Semester Hours)
   Physics with lab (8)
   Biology or zoology (three courses) (9)
      A basic understanding of genetics should have been derived from these courses.
   General chemistry with lab (8)
   Organic chemistry with lab (4)
   Calculus and Math statistics (or BioStats) (6)
   English (one must be a composition course) (6)
   Humanities or social sciences (6)
   Electives (43)
      Additional science courses (biochemistry and microbiology) are strongly encouraged, but not required.

Total semester hour credits 90

PUR – Purdue University
Courses (Semesters)
   Physics with lab (2)
   Biochemistry (1)
   Biology (including cell) with lab (2)
   Inorganic chemistry with lab (2)
   Organic chemistry with lab (2)
   Calculus (1)
   Statistics (1)
   English composition (1)
   Humanities (3)
   Genetics (1)
   Microbiology with lab (1)
   Careers in Veterinary Medicine (if available) (1)
   Communication (1)
   Nutrition-general animal (1)
TAM – Texas A&M University
Courses (Semester Hours)

  General Biology with lab (4)
    Must be taken at a 4-year college or university. May not be taken at community or junior colleges.
  General Microbiology with lab (4)
    Must be taken at a 4-year college or university. May not be taken at community or junior colleges.
  Genetics (3)
    Must be taken at a 4-year college or university. May not be taken at community or junior colleges.
  Animal Nutrition or Feeds and Feeding (3)
    Must be taken at a 4-year college or university. May not be taken at community or junior colleges.
  General Animal Science (3)
  Inorganic Chemistry with lab (8)
  Organic Chemistry with lab (8)
  Biochemistry I & II (5)
    Lecture hours only
    Must be taken at a 4-year college or university. May not be taken at community or junior colleges.
  Calculus or Statistics (3)
    Statistics must be taken at a 4-year college or university. May not be taken at community or junior colleges.
  Physics with lab (8)
  Composition and Rhetoric (3)
  Literature (3)
  Speech Communications (3)
  Technical Writing (3)

Total semester credit hours 61

TUF – Tufts University
Courses (Semester Hours)

  Physics (6)
  Biochemistry (3)
  General biology (8)
  General inorganic chemistry (8)
  Organic chemistry (8)
  Math/Statistics (6)
  English (6)
  Social sciences (6)
  Humanities (6)
Genetics (unless included in biology) (3)
Science Electives- Additional science courses are recommended, but not required

Total semester credit hours 60

TUS – Tuskegee University
Courses (Semester Hours)
  English or Written Composition (6)
  Mathematics (6)
  Social Sciences / Humanities (6)
  Liberal Arts (6)
  Advance Biology (9)
    300 Level or Above
  Biochemistry w/Lab (4)
  Advance Biology Elective (8)
  Organic Chemistry w/Lab (4)
  Physics w/Lab (8)
  Introduction to Animal Science (3)
  Animal Nutrition (3)

Total semester credit hours 63

UTN – University of Tennessee
Courses (Semester Hours)
  Physics with lab (8)
  Biochemistry, exclusive of laboratory (4)
    This should be a complete upper-division course in general cellular and comparative biochemistry. Half of a two-semester sequence will not satisfy this requirement. The biochemistry course requirement must have been satisfactorily completed within five years of the time you wish to enter the professional program.
  General biology/zoology with lab (8)
  General inorganic chemistry with lab (8)
  Organic chemistry with lab (8)
  English composition (6)
  Social sciences/humanities (18)
  Genetics (3)
  Science Electives
    Applicants are strongly encouraged to take additional biological and physical science courses especially comparative anatomy, mammalian
Cellular biology (3)

Total semester credit hours 66

VMR – Virginia-Maryland Regional College

Courses (Semester Hours)

- **Physics** with lab (8)
- **Biochemistry**, laboratory not required (3)
- **Biological sciences** with lab (8)
- **Organic chemistry** with lab (8)
- **Mathematics** (college algebra or higher) (6)
- **English** (composition – 3 credits) (6)
- **Humanities/social sciences** (6)

Total semester credit hours 45

WES – Western University

Courses (Semester Hours)

- **General physics** with lab (6)
- **Biochemistry or physiological chemistry** (3)
  - Must be a course designed or specified for science majors.
  - These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).
- **Upper-division biological & life sciences** (must include one upper div lab) (9)
  - These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).
  - No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.
- **Organic chemistry** with lab (3)
- **Statistics** (3)
  - Must be a course designed or specified for science majors.
- **English composition** (6)
- **Humanities/social sciences** (9)
- **Psychology or sociology** (3)
- **Genetics or molecular biology** (3)
  - These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).
  - No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.
- **Microbiology** (3)
  - These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).
No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.

**Public speaking or small group communication** (3)

**Physiology** (3)

These courses must have been completed no more than 8 years prior to the date of matriculation at WesternU-CVM (August 2003 for entry 2011).

Must be an upper-division course in animal, human or comparative physiology. Will not accept courses in cellular, neuro-, patho- or reproductive physiology.

No more than two of these prerequisite courses may be in progress after the end of the fall term immediately prior to matriculation.

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**WSU – Washington State University**

Courses (Semester hours)

- **Physics** with lab (4)
- **Biochemistry** (3)
- **Biology** with lab (8)
- **Inorganic chemistry** with lab (8)
- **Organic chemistry** with lab (4)
- **Math** (pre-calculus or higher) (3)
- **Statistics** (methods) (3)
- **Genetics** (4)

**General Education Requirements**

- **English composition/communication** (6)
  Waived if applicant has BS/BA.
- **Arts & humanities/social science/history** (21)
  Waived if applicant has BS/BA.

**Total semester credit hours 64**

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**WIS – University of Wisconsin**

Courses (Semester Hours)

- **Physics**, two-semester lecture series (6)
- **Biochemistry**, a course which has organic chemistry as a prerequisite (3)
- **Biology or zoology**, introductory animal biology course with lab (5)
- **General and qualitative chemistry**, two-semester lecture series with lab (8)
- **Organic chemistry**, one-semester lecture satisfying biochemistry prerequisite (3)
- **Statistics** (3)
- **English composition or journalism** (6)
- **Social sciences/humanities** (6)
**Genetics or animal breeding**, must include principles of heredity (3)

Science electives, recommended. Applicants are encouraged to take additional upper-level science courses such as anatomy, physiology, microbiology, or cell/molecular biology.

**CAL – University of Calgary**

Courses

- **Biology**: Two introductory Biology courses
- **Genetics**: One introductory Genetics course
- **Ecology**: One introductory Ecology course
- **Chemistry**: Two introductory Chemistry courses
- **Organic Chemistry**: One introductory Organic Chemistry course
- **Biochemistry**: One introductory Biochemistry course
- **Mathematics**: One introductory Statistics course
- **English**: One introductory English course

**Total Courses 10**

**DUB – University College Dublin**

Course (Semesters)

- **Physics** with lab (1)
- **Biochemistry** with lab (1)
- **General biology** (1)
- **General inorganic chemistry** (1)
- **Microbiology** (1)
- **Cellular biology** (1)

**EDI – University of Edinburgh**

Courses (Semesters)

- **Physics** (1)
- **Biology** (1)
- **Chemistry** (2)
- **Mathematics** (1)

**GLA – University of Glasgow**
Courses

Physics
Biology
Organic Chemistry
Mathematics

Three years of university required

PEI – University of Prince Edward Island (AVC)
Courses (Semesters)

Physics (1)
Biology (1 Genetics; 1 Microbiology) (4)
Chemistry (1 Organic Chemistry) (3)
Mathematics (1 Statistics) (2)
English (1 English Composition) (2)
Humanities and social sciences (3)
Electives (5)

Total semester courses 20
(Must be at least 3 semester-hours of credit/per course)

GUE – University of Guelph
Courses (Semesters)

Biochemistry (1)
Biological sciences (2)

Biological sciences with recommended emphasis on animal biology
Statistics (1)
Humanities and/or social sciences (2)
Genetics (1)
Cell biology (1)

Total semester courses 8

MAS – Massey University
Courses (Semesters)

Physics sequence (2)

Organismal biology + animal biology/vertebrate zoology
General chemistry plus organic chemistry
First year bio series + Cellular/molecular biology or genetics

MON – Universite de Montreal
Courses (Level)
- Physics (101, 201, 301–78)
- Chemistry (101, 201, 202)
- Biology (301, 401)
- Mathematics (including calculus) (103, 203)

To be considered for admission, one must:
  a) have completed the above requirements, or
  b) have completed equivalent studies.

MUR – Murdoch University
Courses
- Chemistry
- Statistics
- Cellular Function/Biology

ROS – Ross University
Courses (Semester Hours)
- Biology (General or Zoology) with lab (8)
- Chemistry (General or Inorganic) with lab (8)
- Organic Chemistry with lab (4)
- Physics with lab (4)
- Biochemistry (3)
- Advanced Biology (12)
- English (8)
  
    Canadian students may satisfy the English requirement using year 13 English or Composition.

Mathematics (3)

Total semester credit hours 50

ROY – Royal Veterinary College
Physics with laboratory (4 semester credits)
Biochemistry (4 semester credits)
Principles of biology, general biology, animal biology or zoology (8 semester credits)
General chemistry or fundamentals of chemistry, or inorganic chemistry (recommended)
Organic chemistry (8 semester credits)
Mathematics or statistics (including Algebra) (4 semester credits)

SAS – University of Saskatchewan
Courses (Semester Hours)
   English (6)
   Physics (3)
   Biology (6)
   Genetics (3)
   Introductory Chemistry (6)
   Organic Chemistry (3)
   Mathematics or Statistics (6)
   Biochemistry (3)
   Microbiology (3)
   Electives (21)
Total semester credit hours 60

STG – St. George’s University
Courses (Semester Hours)
   General Biology or Zoology with lab (8)
   Inorganic Chemistry (General or Physical) with lab (8)
   Organic Chemistry with lab (4)
   Biochemistry (3)
   Genetics (3)
   Physics with lab (4)
   Calculus, Computer Science or Statistics (3)
   English (3)
Total semester credit hours 36

STM – St. Matthew’s University
Courses (Semester Hours)
General Biology with lab (8)
General Chemistry with lab (8)
Organic Chemistry with lab (4)
Biochemistry (3)
Language Arts/English (6)
College Math or Computer Science (3)
Physics (4)

Recommended
Social Science (6)

Recommended

Total semester credit hours 42

SYD – University of Sydney
Courses
General Chemistry (Physical and Inorganic)
Organic Chemistry
Biology
Biochemistry

UNM – National Autonomous University of Mexico (UNAM)
Courses (Semesters)
Mathematics (4)
Physics (4)
Inorganic and Organic Chemistry (4)
Principles of Biology and General Biology (4)
Social Sciences/Humanities (6)
Electives (2)

Selected topics on biology, statistics, morphophysiology or physicochemistry.

Total semesters 24