BIOLOGY – Molecular, Cellular & Developmental Biology Option

CSU, FRESNO LOWER DIVISION™ TRANSFER MAJOR PREPARATION

2009-10 CATALOG

CAREER OPPORTUNITIES IN BIOLOGY – MOLECULAR, CELLULAR & DEVELOPMENTAL BIOLOGY OPTION

- Virologist
- Molecular Genetist
- Forensic Biologist
- Histologist

Some career options may require more than a bachelor’s degree. For more career options, visit the FCC Career Center located in the Student Services Building in the Counseling Center.

Students can meet with a counselor to run an unofficial degree audit for this transfer major using E.CSFRESNO.BIO.M.C.D

ASSOCIATE DEGREE REQUIREMENTS

For an Associate in Arts degree with a Liberal Arts major you must complete a minimum of 60 semester units with a 2.0 GPA or higher including:

- CSU General Education Pattern
- HLTH 1, CHDEV/PSY 38, PSY 2/H, or PSY 33
- Two PE/Dance courses (see catalog for exclusions)
- Computer Literacy: pass an approved course or the exam (see catalog)

 Needed

FCC COMPARABLE COURSES:

| BIOL 11H, Principles of Biology | BIOL 1A, Introductory Biology (CSUF GE Area B2) |
| BIOL 4, Principles of Zoology and BIOL 6, Principles of Botany | BIOL 1B, Introductory Biology |

ADDITIONAL MAJOR REQUIREMENTS:

| CHEM 1A, General Chemistry | CHEM 1A, General Chem 1A (CSUF GE Area B1) |
| CHEM 1B, General Chemistry & Qualitative Analysis | CHEM 1B, General Chemistry 1B |
| CHEM 28A, Organic Chemistry I | CHEM 128A, Organic Chemistry |
| CHEM 28B, Organic Chemistry II | CHEM 128B, Organic Chemistry |
| CHEM 29A, Organic Chemistry Laboratory I | CHEM 129A, Organic Chemistry Laboratory |
| PHYS 2A-2B, General Physics 1 & 2 | PHYS 2A-2B, General Physics |
| No Comparable Course | MATH 70, Calculus for Life Sciences OR MATH 75, Calculus I (CSUF GE Area B4) |
| MATH 5A, Mathematical Analysis I | +PSYCH 42, Introductory Statistics |
| PSY/MATH 42, Statistics for the Behavioral Sciences | |

NOTE:

1. The Bachelor of Science degree with a Molecular, Cellular & Developmental Biology Option in the Biology major at CSUF requires a minimum of 120 semester units of which a maximum of 70 semester units can be from the community colleges. Students may not elect CR/NC graded coursework to satisfy major, major G.E., or major additional requirements unless the course has been designated CR/NC only. If there are lower division requirements which FCC does not offer, they must be taken after transfer to CSUF. If there is a “break” in your attendance, you will be required to fulfill current CSUF catalog requirements. Consult the CSUF catalog for complete degree requirements. Contact your counselor if you have questions.

2. The Molecular, Cellular, and Developmental Biology Option is intended for students who wish to study the molecular mechanisms underlying cellular structure and function and the processes of organism development. Molecular biology combines the knowledge and techniques of genetics, cell biology and biochemistry, forming a basis for in-depth inquiry into all aspects of biology. This option also prepares students for the department’s post-baccalaureate Certificate of Advanced Studies in Biotechnology.

3. See “Natural Sciences (Teacher Preparation – Single Subject Waiver Program)” major sheet for secondary teaching requirements.

4. *CHEM 28AB and CHEM 29AB will meet subject matter requirements only; not upper division unit credit.

5. *See the CSUF catalog for additional selections.

6. The Biology major at CSUF is being revised for 2010-11.

LOWER DIVISION corresponds to freshman and sophomore years of college.

CSU FRESNO ADMISSION REQUIREMENTS

The California State University requires a total of 60 transferable units for admission, including at least 30 units of general education requirements. All of General Education Area A & B4 must be completed for a letter grade; C or higher for transfer. Students must obtain the CSU General Education requirement sheet so that they can plan their transfer program (both major and GE requirements) at FCC appropriately. A request for certification should be made when requesting final transcripts upon transfer.

See a counselor regularly for assistance as you plan to meet transfer requirements.

This document is available online. Go to: www.fresnocitycollege.edu and type "CSU Fresno major sheets" in the search box, or visit www.assist.org;

Counselor: ___________________________ Date: ___________________________

CSUF/BIOLOGY MC&D OPTION (06-17-09) RS/klr

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