

Courses and Programs

requirements, and genetic analysis. Cloning, fusion, and generation of monoclonal antibody (hybridoma) are presented relative to cultured cell biology and application to biotechnology. (1 lecture, 3 lab hours)

248. Seminar in Molecular Biology and Biotechnology (1-2; max total 4)
(Same as Chem 248.) Prerequisite: admission into the Biotechnology Certificate Program. Reviews and reports on current literature in various aspects of biotechnology and molecular biology.

250. Scientific Research Reporting (2)
Prerequisite: permission of instructor. Techniques of scientific photography and writing, illustrating emphasized. (1 lecture, 3 lab hours)

255T. Topics in Botany (1-3; max total 8)
Prerequisite: permission of instructor. Investigation of new fields, areas not in current courses, or advanced studies in a given area. (Lecture and/or laboratory)

260T. Topics in Biology (1-3; max total 8)
Prerequisite: permission of instructor. Investigation of new fields, areas not in current courses, or advanced studies in a given area. (Lecture and/or laboratory)

265T. Topics in Physiology (1-3; max total 8)
Prerequisite: permission of instructor. Investigation of new fields, areas not in current courses, or advanced studies in a given area. (Lecture and/or laboratory)

270T. Topics in Zoology (1-3; max total 8)
Prerequisite: permission of instructor. Investigation of new fields, areas not in current courses, or advanced studies in a given area. (Lecture and/or laboratory)

272. Physiological Ecology of Vertebrates (2)
Prerequisite: BioSc 130, PhyAn 151. An analysis of problems in and adaptations to arctic, alpine, marine, desert, tropical, and disturbed ecosystems; matters of energy and water economy, respiratory, circulatory, and sensory neuromuscular adaptations, and such topics as biological timing, migration, and navigation. Lecture/seminar; paper(s) required.

274. Biometry (3)
Prerequisite: one statistics class, preferably Math 101. Application of statistical techniques to biological problems with emphasis on sampling, analysis of variance, experimental design, and regression

techniques. Emphasis on analysis of real biological data and interpretation of results.

275. Biogeography (3)
Prerequisite: permission of instructor. Seminar in descriptive and ecological geography of animal and plant groups.

281T. Seminar in Biological Science (1-2)
Prerequisite: permission of instructor. Reviews and reports on current literature in the various phases of biology.

290. Independent Study (1-3; max see reference)
See *Academic Placement — Independent Study*. Approved for *SP* grading.

295. Research (2-6; max total 6)
Prerequisite: permission of the instructor. Independent research by the advanced graduate student.

299. Thesis (2-4; max total 4)
Prerequisite: See *Criteria for Thesis and Project*. Preparation, completion, and submission of an acceptable thesis for the master's degree. Approved for *SP* grading.

IN-SERVICE COURSE (See *Course Numbering System*.)

Biology (Biol)

302T. Topics in Biology (3; max total 6)
Prerequisite: graduate standing or permission of instructor. Relation of man to his surroundings; review of concepts, cell, physics and chemistry of life, energetics, inheritance, evolution.

Business — Finance and Business Law

See Page 207

The following information replaces catalog copy under the heading *Options in the Department of Finance and Business Law*:

Agribusiness Option	Units
Fin 121; B A 174; Ag Ec 110, 150, 160	15
Elect 4 from at least two areas: Fin 123, 128, 133, 137; B A 154, 175, 178; Ag Ec 153, 162, 163	12-13
	27-28

Finance Option

B A 100; Fin 121, 122, 123, 128, 139	19
Elect 3 from: Fin 131, 132, 133, 137, 138, 143, 180; B A 150, 178	9
	28

Financial Services Option

Fin 128, 143, 144, 150, 180	15
B A 100, 160	6
Acct 144	4
Elect 2 from: Fin 122, 123, 131, 132, 133, 138, 139, 145, 146, 181, 182, 183; B A 150, 154	6-7
	31-32

International Business Option*

B A 174, 175, 176, 178	12
Mktg 176	3
Mgt 131	3
Electives**	9
	27

* Students selecting the International Business Option must successfully demonstrate conversational proficiency in a language other than English.

** Requires prior approval of faculty adviser.

Legal Environment of Business Option

Elect from B A 150, 151, 155	9
Elect 2 from: B A 101, 154, 156, 158, 160; HRM 157	6
Elect from approved upper-division courses in accountancy, business administration (including international business), finance, human resource management, management, marketing, logistics, decision science, information systems, production and operations management	9
	24

Real Estate and Urban Land Economics Option

B A 100, 154	6
Fin 122, 180, 181, 182, 183	15
Elect 1 from: Fin 123, 132, 185, 186	3-4
	24-25

Risk Management and Insurance Option

Fin 143, 144, 145, 146	12
B A 100, 151, 160	9
Elect 2 from: Fin 122, 128, 131, 133, 138, 139, 180; Acct 144	6-7
	27-28

NEW COURSE Finance (Fin)

133. Futures Markets (3)
Prerequisite: Fin 120. Use of futures contracts as speculative investments and as hedging devices to reduce risk in securities portfolios and in domestic and international business operations. Topics: financial futures, commodity futures, futures markets, fundamental and technical analysis, hedging strategies. (Former Fin 189T section)