417. Residential Finance
Winter. 4(4-0) AFA 395 or approval of department.
Analysis of financial programs for the construction, rehabilitation, remodeling and purchase of homes, especially meeting the nation's goals for low to moderate income housing.

418. Special Problems
Fall, Winter, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 9 credits. Written approval of department.
Special problems in the areas of acquisition and development of residential land, design, construction technology, building materials, finance, marketing, construction management and land use codes and regulations.

420. Construction Management
Spring, 4(4-0) Senior majors or approval of department.
Systems management techniques for residential building organizations inclusive of organization development, operations, planning, scheduling and control, and administrative systems and procedures.

425. Agriculture and Natural Resources Seminar
(AG 425.) Spring, 2(2-0)
Current agricultural, natural resources, and environmental problems and solutions as presented by discussion leaders from various disciplines, arranged by undergraduate students.

220. Plants and Their Environment
(NR 220.) Winter, 3(3-0) Interdepartmental with and administered by the Department of Forestry.
Relationships between plants and fundamental climatic, edaphic, and biotic factors; structure and function of different ecosystems in relation to environmental factors.

230A. Introduction to Careers in Vocational and Practical Arts Education: Agriculture and Natural Resources
(AG 230A.) Fall, 2(1-2) Open only to teaching majors or minors in agriculture and natural resources. Interdepartmental with and administered by the College of Education.
To assist agriculture and natural resource teachers in selecting courses pertaining to the nature and functions of persons in agriculture and natural resources occupations and development of competencies which will assist in making their students aware of these functions.

254. Exploring International Agriculture
(AG 254.) Spring, 3(3-0)
Exploration of overseas assignments with international agencies, potential world food actualities and potentialities, special problems of the tropics compared with those in temperate regions.

255. Forest Ecology
(AG 255.) Summer, 3(3-0) Summer. Open to majors.
Structure, functional and physiological characteristics of forest ecosystems as affected by environmental factors; structure and function of different ecosystems in relation to environmental factors.

256. Forest Silviculture
(AG 256.) Fall, 3(2-2) Fall. Open to majors.
Stages and methods of forest management; selection and management of species; silvicultural systems; concepts pertaining to forest communities.

257. Forest Management
(AG 257.) Spring, 3(3-0) Spring. Open to majors.
Selection and management of species; silvicultural systems; concepts pertaining to forest communities.

262. Forest Dynamics
(AG 262.) Fall, 3(3-0) Fall. Open to majors.
Structure, functional and physiological characteristics of forest ecosystems as affected by environmental factors; structure and function of different ecosystems in relation to environmental factors.

263. Forest Ecology
(AG 263.) Summer, 3(3-0) Summer. Open to majors.
Structure, functional and physiological characteristics of forest ecosystems as affected by environmental factors; structure and function of different ecosystems in relation to environmental factors.

264. Forest Silviculture
(AG 264.) Fall, 3(2-2) Fall. Open to majors.
Stages and methods of forest management; selection and management of species; silvicultural systems; concepts pertaining to forest communities.

265. Forest Management
(AG 265.) Spring, 3(3-0) Spring. Open to majors.
Selection and management of species; silvicultural systems; concepts pertaining to forest communities.

266. Forest Dynamics
(AG 266.) Fall, 3(3-0) Fall. Open to majors.
Structure, functional and physiological characteristics of forest ecosystems as affected by environmental factors; structure and function of different ecosystems in relation to environmental factors.

275. Exploring International Agriculture
(AG 275.) Spring, 3(3-0)
Exploration of overseas assignments with international agencies, potential world food actualities and potentialities, special problems of the tropics compared with those in temperate regions.

300. Special Problems
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 6 credits. Approval of department.

310. Environmental Toxicology
(AG 310.) Winter, 4(4-0) B 5 212, BCH 401. Interdepartmental with and administered by the College of Natural Science.
Fate and effects of toxic chemicals in soil, plants, wildlife, and aquatic systems. Interactions between chemicals and the environment which influence their fate and ecological importance.

312. Departmental with and administered by the College of Natural Science.
Designed to integrate knowledge and improve ability in arriving at pest management decisions of varying complexity involving the fields of agronomy, wildlife, horticulture, entomology, and plant pathology.

315. Environmental Toxicology
(AG 315.) Winter, 4(4-0) B 5 212, BCH 401. Interdepartmental with and administered by the College of Natural Science.
Fate and effects of toxic chemicals in soil, plants, wildlife, and aquatic systems. Interactions between chemicals and the environment which influence their fate and ecological importance.

317. Environmental Toxicology
(AG 317.) Winter, 4(4-0) B 5 212, BCH 401. Interdepartmental with and administered by the College of Natural Science.
Fate and effects of toxic chemicals in soil, plants, wildlife, and aquatic systems. Interactions between chemicals and the environment which influence their fate and ecological importance.

318. Environmental Toxicology
(AG 318.) Winter, 4(4-0) B 5 212, BCH 401. Interdepartmental with and administered by the College of Natural Science.
Fate and effects of toxic chemicals in soil, plants, wildlife, and aquatic systems. Interactions between chemicals and the environment which influence their fate and ecological importance.

403. Agriculture and Natural Resources Management Internship
(AG 403.) Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits. AG 401, approval of college.
Internship with professionals in communication and media fields with emphasis on student's areas of interest: writing, radio, TV, publications, etc.

404. Agriculture and Natural Resources Communications Internship
(AG 404.) Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits. AG 401, approval of college.
Internship with professionals in communication and media fields with emphasis on student's areas of interest: writing, radio, TV, publications, etc.

405. Professional Internships in Agriculture and Natural Resources
(AG 405.) Fall, Winter, Spring, Summer, 2(2-2) Open only to majors.
Open only to majors.

406. Professional Internships in Agriculture and Natural Resources
(AG 406.) Fall, Winter, Spring, Summer, 2(2-2) Open only to majors.
Open only to majors.
455. Natural Resource Economics (N R 455) Fall, 4(4-0). Approval of department. Interdepartmental with the department of Fisheries and Wildlife, Forestry, Park, and Recreation Resources and Resource Development. Administered by the Department of Forestry. Basic economic and political principles and techniques that govern the production and consumption of forest land products, including basic forest valuation procedures.

462. Agricultural and Rural Development (AG 462) Fall, 3(3-0) PAM 201 or EC 301; PAM 250 recommended. Interdepartmental with Public Affairs Management, and Food Systems Economics and Management. Administered by Food Systems Economics and Management.

Traditional agricultural systems and the incentive environment for economic growth in rural areas. Adjustment to technological, institutional and human change. Strategies for rapid agricultural transformation.

475. International Management (N R 475) Management. Offered by the Department of Food Systems Economics.

Traditional agricultural systems and the objectives and approaches of interdisciplinary studies.

478. Exposition of Special Topics in Agriculture and Natural Resources (AG 478) Offered by the Department of Forestry.

Selected topics in agriculture and natural resources management and use are examined in terms of the society in which they exist.

491. Natural Resources and Modern Society (N R 491) Spring, 3(3-0) Juniors. Interdepartmental with the departments of Forestry, and Resource Development. Administered by the Department of Forestry.

A survey of the social and economic significance of natural resources in modern industrial and urban society. Current problems of natural resource management and use are examined in terms of the society in which they exist.

AMERICAN STUDIES AMS

Aims to improve students' ability to read and write and to acquaint them with their American heritage. Selected reading and theme topics.

American Expression

Fall, Winter, Spring, 3(3-0) Satisfactory performance on the placement test.

301. Issues in American Civilization

Fall, Winter, Spring, 3(3-0) May re-enroll for a maximum of 9 credits. Not applicable to major requirements.

Selected issues in American life past and present, with materials drawn from such disciplines as history, social sciences, philosophy, literature and the arts. Topics vary.

378. Popular Culture and Technical Change

Fall, Winter, 4(4-0) Juniors or approval of department. Interdepartmental with and administered by Lyman Briggs School. Interrelationships among elements of mass culture and technical change. Introduction to relevant research methods.

410. Perspectives in American Studies

Fall, 3 credits. Juniors in American Studies or approval of American Studies Committee. Methods and significant works, for majors in the American Studies program. Offered by members of the relevant departments.

411. Problems in American Civilization

Winter, Spring, 3 credits. Majors must re-enroll for a maximum of 6 credits. AMS 410, Juniors in American Studies or approval of American Studies Committee. Seminar approach to selected problems in American life employing the objectives and approaches of interdisciplinary studies. Offered by members of relevant departments, for majors in the American Studies program.

0142. Writing Laboratory I

Fall, Winter, Spring, 0(0-2) [2(2-0) See page A-1 item 3] ATL 0991 or admission by placement test; ATL 1144 concurrently.

An individualized program to develop composition skills by aiding students to discover how language functions in communication and by helping them to accept responsibility for learning to write correctly.

0152. Writing Laboratory II

Fall, Winter, Spring, 0(0-2) [2(2-0) See page A-1 item 3] ATL 0991 or admission by placement test; ATL 1144 or approval of department; ATL 1154 concurrently. Containment of ATL 0142.

0162. Writing Laboratory III

Fall, Winter, Spring, 0(0-2) [2(2-0) See page A-1 item 3] ATL 1154 or approval of department; ATL 1164 concurrently. Containment of ATL 0152.

0991. Preparatory Writing Skills

Fall, Winter, Spring, Summer, 0(3-0) [3(3-0) See page A-1 item 3] Admission by placement test. Instruction and practice in writing. Emphasis on mastery of fundamental skills needed for a variety of writing assignments.

1144. Developmental Writing I

Fall, Winter, Spring, 3(3-0) ATL 0991 or admission by placement test; ATL 0142 concurrently. Students engage in expressive writing to respond to reading in clear and direct prose. Students write personal essays and read autobiographical materials, making use of college-level readings.

1154. Developmental Writing II

Fall, Winter, Spring, 3(3-0) ATL 0142, ATL 1144 or approval of department; ATL 0152 concurrently. Interpretive, analytical, and expository writing in response to college-level readings.

1164. Developmental Writing III

Fall, Winter, Spring, 3(3-0) ATL 0152, ATL 1154 or approval of department; ATL 0162 concurrently.

Students write analytical/critical/persuasive papers and undertake a research project. Reading of college-level materials.

117. Use of Libraries

Fall, Winter, 1(1-0) The use of libraries, with emphasis on MSU Library. Course will stress knowledge and use of bibliographic and reference resources.

121. American Expression

Fall, Winter, Spring, 3(3-0) Satisfactory performance on the placement test.

302. American Studies

Fall, Winter, Spring, Summer, 3(3-0) Satisfactory performance on the placement test.

1144. Developmental Writing I

Fall, Winter, Spring, 3(3-0) ATL 0991 or admission by placement test; ATL 1144 concurrently. Offered by members of relevant departments, for majors in the American Studies program.

1154. Developmental Writing II

Fall, Winter, Spring, 3(3-0) ATL 0142, ATL 1144 or approval of department; ATL 0152 concurrently. Interpretive, analytical, and expository writing in response to college-level readings.

1164. Developmental Writing III

Fall, Winter, Spring, 3(3-0) ATL 0152, ATL 1154 or approval of department; ATL 0162 concurrently. Students write analytical/critical/persuasive papers and undertake a research project. Reading of college-level materials.

117. Use of Libraries

Fall, Winter, 1(1-0) The use of libraries, with emphasis on MSU Library. Course will stress knowledge and use of bibliographic and reference resources.

121. American Expression

Fall, Winter, Spring, 3(3-0) Satisfactory performance on the placement test.

Aims to improve students' ability to read and write and to acquaint them with their American heritage. Selected reading and theme topics.

122. American Expression

Fall, Winter, Spring, 3(3-0) Three credits in the second term of any ATL sequence numbered 121 or higher or approval of department.

Aims to improve students' ability to read and write and to acquaint them with their American heritage. Selected reading and theme topics.

131. Major Currents in American Experience

Fall, Winter, Spring, Summer, 3(3-0) Satisfactory performance on the placement test.

Investigation into the significance Americans place on individual search for meaning and its effect on our American heritage. Subject matter is the focus for improving reading and writing abilities.