Environmental Studies and Agriscience degree requirements

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This document consists of all the courses that are required for my degree taken at Michigan State University up to date at Michigan State University. The courses are categorized by topics. Below each course there is a description of what was accomplished in each course. Please note that some of the course projects are available on the web via my Digital Portfolio.
Community, Agriculture, Recreation and Resource Studies
Course: ACR 202  Problem Solving in Community, Agriculture, and Environmental Systems
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3
Prerequisite: ESA 200 or PRR 213 Restrictions: Not open to freshmen. Description: Issues identification, critical thinking, problem solving, sustainability, and leadership in agriculture, natural resources, and community development.
   •  Received 3.5/4.0

Course: ACR 205  Agriculture and Natural Resources Communication Theory and Practice
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3
Prerequisite: Completion of Tier I Writing requirement Restrictions: Open to students in the Department of Community, Agriculture, Recreation and Resource Studies or in the Department of Food Science and Human Nutrition or approval of department. Not open to students with credit in: AEE 211 or PRR 351 or RD 300 Description: Communication theory and skills for professionals in the fields of agriculture, food, environment, and recreation.
   •  Received 3.5/4.0

Agriculture and Natural Resources
Course: ANR 210  Pathways in Connected Learning
Total Credits: 3  Lecture/Recitation/Discussion Hours: 2  Lab Hours: 2
Restrictions: Approval of college. Description: Active, self-directed, and reflective learning associated with agriculture and natural resource issues, self and social development, and ethical choice making. Development of a learning plan and design of a learning portfolio. Individual and group presentations.
   •  Received 4.0/4.0

Course: ANR 310  Connected Learning Seminar I
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3
Prerequisite: ANR 210 Description: Learner-directed critical analysis of contemporary issues in agriculture and natural resources. Communication of outcomes to professional communities. Collaborative learning integrated with individual experiences.
   •  Received 4.0/4.0

Animal Science
Course: ANS 110  Introductory Animal Agriculture
Total Credits: 4  Lecture/Recitation/Discussion Hours: 3  Lab Hours: 2
Description: History of animal agriculture and its relationship to human needs, production systems, marketing, and environmental considerations. Current goals of and limitations affecting U.S. farm animal production.
   •  Received 2.0/4.0

Biological Science
Course: BS 110  Organisms and Populations
Total Credits: 4  Lecture/Recitation/Discussion Hours: 3  Lab Hours: 3
Not open to students with credit in: BS 148H or LB 144 Description: Biological diversity and organismal biology. Principles of evolution, population biology, and community structure.
   •  Received 3.5/4.0

Chemistry
Course: CEM 141  General Chemistry
Total Credits: 4  Lecture/Recitation/Discussion Hours: 4
Prerequisite: (MTH 103 or concurrently) or (MTH 110 or concurrently) or (MTH 116 or concurrently) or (MTH 124 or concurrently) or (MTH 132 or concurrently) or (MTH 152H or concurrently) or (LBS 117 or concurrently) or (LBS 118 or concurrently) or designated score on Mathematics Placement test
   •  Received 2.0/4.0
Course: CEM 161 Chemistry Laboratory I  
Total Credits: 1  Lab Hours: 3  
Prerequisite: (CEM 141 or concurrently) or (CEM 151 or concurrently)  
Not open to students with credit in: LBS 171L or CEM 185H  
Description: Experiments in general chemistry; stoichiometry, calorimetry, electrochemistry, molecular geometry, gas laws, kinetics, acids and bases, and inorganic chemistry.  
- Received 3.5/4.0

Crop & Soil Sciences  
Course: CSS 101 Introduction to Crop Science  
Total Credits: 3  Lecture/Recitation/Discussion Hours: 2  Lab Hours: 2  
Description: Principles of crop production including crop and soil management and improvement. International and sustainable agriculture. Water quality issues.  
- Received 2.5/4.0

Economics  
Course: EC 201 Introduction to Microeconomics  
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3  
Not open to students with credit in: EC 251H  
Description: Economic institutions, reasoning and analysis. Consumption, production, determination of price and quantity in different markets. Income distribution, market structure and normative analysis.  
- Received 1.0/4.0

Environmental Studies and Agriscience  
Course: ESA 335 Engaged Learning and Teaching  
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3  
Restrictions: Open to juniors or seniors or graduate students.  
Description: Engaged teaching and learning within communities in non-formal settings.  
- Received 3.5/4.0

Course: ESA 435 Conservation Education  
Total Credits: 3  Lecture/Recitation/Discussion Hours: 2  Lab Hours: 2  
Prerequisite: ZOL 355  
Restrictions: Open to juniors or seniors or graduate students.  
Description: Methods, materials and theory for teaching conservation and environmental education in formal and nonformal educational settings. Field trips required.  
- Received 3.5/4.0

Course: ESA 436 Conservation Education Practice  
Total Credits: 1  Lecture/Recitation/Discussion Hours: 1  
Reenrollment Information: A student may earn a maximum of 3 credits in all enrollments for this course.  
Prerequisite: ESA 435 or concurrently  
Description: Professional training for certification in conservation education curricula.  
- Received 4.0/4.0

Fisheries and Wildlife  
Course: FW 480 International Studies in Fisheries and Wildlife  
Credits: Variable from 1 to 6  
Reenrollment Information: A student may earn a maximum of 12 credits in all enrollments for this course.  
Recommended Background: ZOL 355  
Restrictions: Approval of department; application required.  
Description: Fisheries and wildlife ecology and management study in regions beyond the United States. Ecological, economic, social, and cultural influences on fisheries and wildlife resources.
• Received 3.5/4.0
• Traveled to Egypt

**Geology**
Course: GLG 201  The Dynamic Earth
Total Credits: 4  Lecture/Recitation/Discussion Hours: 3  Lab Hours: 2
Not open to students with credit in:GLG 301Description:Physical and chemical processes related to the past, present and future behavior of the earth system, and the energy systems that drive these processes. A study of the earth’s materials, the earth's surface and the earth's interior.
• Received 2.5/4.0

**Integrative Studies Arts & Humanities**
Course: IAH 205  Africa and the World (I)
Total Credits: 4  Lecture/Recitation/Discussion Hours: 4
Prerequisite: Completion of Tier I Writing Requirement Recommended Background: Concurrent registration in AL 201 (Writing Tutorial) required for students receiving 1.5 or 1.0 in Tier I writing course.Description: Major issues in the development of African societies and their interaction with other regions of the world since 600 through study of written texts, the arts and other forms of expression. Topics from West, East, North, and Southern Africa. Organized thematically and historically.
• Received 3.0/4.0

Course: IAH 211C  Area Studies and Multicultural Civilizations: The Americas (D)
Total Credits: 4  Lecture/Recitation/Discussion Hours: 4
Prerequisite:(IAH 201 or IAH 202 or IAH 203 or IAH 204 or IAH 205 or IAH 206 or IAH 207 or IAH 208 or IAH 209 or IAH 210) or (RCAH 201 and completion of Tier I writing requirement)Description:Arts and humanities of the Americas: literature, visual arts, music, religion and philosophy presented in historical context. Selected regions, cultures, and themes. Variable by term.
• Received 4.0/4.0

**Integrative Studies Social Science**
Course: ISS 215  Social Differentiation and Inequality (D)
Total Credits: 4  Lecture/Recitation/Discussion Hours: 4
Description: Types, causes and consequences of stratification in human societies. Age, class, gender, race and other factors which define social position. Education, occupation, political economy.
• Received 2.0/4.0

Course: ISS 320  World Urban Systems (I)
Total Credits: 4  Lecture/Recitation/Discussion Hours: 4
Prerequisite:ISS 210 or ISS 215 or ISS 220 or ISS 225 or ISS 230 or ISS 235Description:Patterns of urbanization in various areas of the world over time. Linkage within and between urban centers. Economic, political and social/behavioral accommodation and adaptation to urban growth and change.
• Received 3.0/4.0

**Mathematics**
Course: MTH 103  College Algebra
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3
Prerequisite:(MTH 1825) or designated score on Mathematics Placement testNot open to students with credit in:LBS 117 or MTH 116Description:Number systems; functions and relations; exponents and logarithms; elementary theory of equations; inequalities; and systems of equations.
• Received 2.0/4.0
Teacher Education
Course: TE 150  Reflections on Learning
Total Credits: 3  Lecture/Recitation/Discussion Hours: 3
Description: Students' experiences as learners in comparison to psychological, sociological, and anthropological theories and assumptions about learning and teaching in and out of school. Interdepartmental With: Counseling, Educational Psychology and Special Education Administered By: Teacher Education
- Received 3.0/4.0

Writing, Rhetoric & American Cultures
Course: WRA 125  Writing: The American Ethnic and Racial Experience
Total Credits: 4  Lecture/Recitation/Discussion Hours: 4
Prerequisite: (WRA 1004) or designated score on English Placement test Not open to students with credit in: MC 111 or MC 112 or LBS 133 or AL 192 or AL 192H or WRA 110 or WRA 115 or WRA 120 or WRA 130 or WRA 135 or WRA 140 or WRA 145 or WRA 150 or WRA 195H
Description: Drafting, revising, and editing compositions derived from readings on the experience of American ethnic and racial groups to develop skills in narration, persuasion, analysis, and documentation. Semester Alias: ATL 125
- Received 2.5/4.0