

WEST VIRGINIA STATE UNIVERSITY

Category of Action Required: Approval of the Intent to Plan.

Title of Degree or Certificate: The addition of a new Agriculture Education (Pre K-Adult) Content Specialization to the list of approved content specializations leading to a Bachelor of Science in Education at West Virginia State University.

Location: Institute, West Virginia

Effective Date of Proposed Action: July 2011-Approval of the Intent to Plan.

Brief Summary Statement:

West Virginia State University is seeking to add a new content specialization in Agriculture Education (Pre K-Adult) to the list of approved content specializations leading to the Bachelor of Science in Education beginning in the 2013-2014 academic year. From 1891-1954, West Virginia State prepared agriculture education teachers for the segregated, public schools of the United States and West Virginia. In 1954, all land grant activities were transferred to West Virginia University, including Agriculture Education. In 1994, West Virginia State had its land grant status restored. A primary mission of a land grant institution is to prepare agriculture education teachers. Therefore, the addition of this new content specialization in Agriculture Education (Pre K-Adult) is consistent with the WVSU University Mission and the Land Grant Mission. Also, this program will provide access to candidates Agriculture Education (Pre K-Adult) in the southern part of West Virginia who may not be able to go to West Virginia University. The WVSU Board of Governors approved the Intent to Plan on _____.

Tentative timelines have been established when the Intent to Plan is approved:

- **July 2011-April 2012 proposal development for eventual approval by the West Virginia State University Board of Governors in April 2012.**
- **Submission of the full proposal to the West Virginia Higher Education Policy Commission for approval in July 2012.**
- **Once approved by the West Virginia Higher Education Policy Commission, seek approval from the West Virginia Board of Education in January 2013.**
- **Begin recruiting students for Fall Semester 2013 in the spring of 2013.**

All faculty members, who will deliver the proposed program, are currently employed by the University. Only four classes will need to be taught by adjunct faculty members and delivered at a local public school vocational center.

INTENT TO PLAN

WVHEPC -Series 11: Submission of Proposals for New Academic Programs and the Discontinuance of Existing Programs Required Format

Agriculture Education (Pre K-Adult)

West Virginia State University

Projected Date of Submission of the full proposal-July 2012

Projected Date of Implementation-August 2013.

5.2.a. A statement describing the educational objectives, the relationship of the objectives to the mission of the institution, and any special features or conditions that make the institution a desirable or unique place to initiate such a program.

The Institutional Mission of West Virginia State University (WVSU) is “To meet the higher educational and economic development needs of the state and region through innovative teaching and applied research.” The proposed restoration of Agriculture Education (Pre K-Adult) demonstrates the institution’s responsiveness to the needs of the service region of RESA III (Boone, Clay, Kanawha and Putnam local county school districts) and a request from the West Virginia Department of Education (see Appendix A-Letters of Support). Also, the proposed additional content specialization meets the College of Professional Studies Mission, “To prepare qualified professionals to serve and lead in a global society,” and the Education Department’s Mission, “To prepare teachers to be human developers who love to teach.” Furthermore, the proposed new program provides agriculture education in the southern part of West Virginia where, until now, students have had to go to West Virginia University in Morgantown to complete this content specialization. Therefore, the proposed content specialization will be more readily accessible and affordable.

All graduates of the teacher education program are assessed during the Pre-professional, Professional, Capstone and Extended Clinical, and Continuing Professional Development Phases of the program. Agriculture Education (Pre K-K) teacher education candidates will be also assessed by these following objectives or outcomes:

1. Demonstrate knowledge and skills in the subject matter(s) of their chosen content specialization (specifically in this case Agriculture Education).
2. Demonstrate understanding of diverse learners, learning processes, and pedagogy by planning, teaching, and assessing lessons that are developmentally appropriate and address national and state standards (for Agriculture Education).
3. Demonstrate knowledge and skills in integration of technology as well as the twenty-first century learning tools and skills in their own teaching as well as the learning processes of their students.

4. Demonstrate the dispositions of a member of the teaching profession and exhibit behaviors congruent with the *Teacher as a Human Developer* conceptual framework.
5. Demonstrate knowledge and skills in creating and maintaining effective learning communities by promoting communication within the school and its community and by developing classroom management frameworks that facilitate respect for all students including their diverse abilities and talents.

When the final proposal for Agriculture Education (Pre K-Adult) is submitted to the WVSU Board of Governors and ultimately to the West Virginia Higher Education Policy Commission, the document will contain unique assessment instruments for this proposed content specialization to align it with the other content specializations that are currently offered at the University through the Education Department.

5.2.b. A brief description of the program.

West Virginia State University has been preparing teachers since 1891. During that same time period, the institution prepared agriculture education teachers until its land grant status was shifted to West Virginia University in 1954. The proposed historic restoration of agriculture education will be a revised, new program that includes current best practices in Agriculture Education as defined in West Virginia Board of Education Policy 5100- Approval of Educational Personnel Preparation Programs and West Virginia Higher Education Policy Commission Series 46-Standards for Subject-Area Content in Secondary Level Teacher Preparation Programs. For this Intent to Plan, a Curriculum Summary Sheet and Course Descriptions were developed and included in Appendices B and C. Both documents were developed by faculty and administrative members of the University and Land Grant Programs. Next, these documents were reviewed and approved by WVSU's Education Department, WVSU-Educational Personnel Advisory Committee (EPPAC) and the Faculty Senate Committee-Campus Wide Committee on Teacher Education.

5.2.c. A statement describing how the institution will assure high quality standards for the program and maintain a continuing assessment of quality.

The West Virginia Higher Education Policy Commission requires all state supported teacher education programs to be accredited by the National Council for the Accreditation of Teacher Education (NCATE). West Virginia State University underwent its reaccreditation visit in April 2007. When the team left the campus, all NCATE Standards were met. In summer of 2007, NCATE selected WVSU to host its annual Board of Examiners Program to train accreditation team members. In October 2007, the NCATE Unit Accrediting Board granted approval of the Teacher Education with all six standards met. As part of the NCATE process, all content specializations must be nationally recognized by the Specialized Professional Association (SPA) process or at the state level by the Curriculum Analysis Report (CAR). Currently all content specializations are recognized by either the SPA or CAR review process.

Once this Intent to Plan is approved by the WVSU Board of Governors and the Chancellor of the West Virginia Higher Education Policy Commission, then the institution must develop the full proposal for eventual approval by the Board of Governors, the West Virginia Higher Education Policy Commission, and the West Virginia Board of Education. Course outcomes, syllabi and field experiences must demonstrate alignment with state standards, Educational Testing Service Standards for Agriculture Education and West Virginia Content Standards and Objectives and West Virginia Professional Teaching Standards. The initial development of the Curriculum Summary Sheet and Course Descriptions (See Appendices B, and C) were developed and incorporated these standards. During the next NCATE reaccreditation visits in 2015 and 2021, the agriculture education program will need to be reapproved as part of the reaccreditation process, thus assuring high quality standards.

5.2.d. A statement listing other institutions in West Virginia that offer similar programs.

West Virginia University (WVU) is the only other institution in West Virginia that offers a comparable program. However, the West Virginia University program prepares candidates for Agricultural and Extension Education where each candidate has the opportunity to choose one of two areas of emphasis – agriculture teacher education or extension, leadership, and communications. **The WVSU program will be limited to teacher preparation.**

In addition, since West Virginia State and West Virginia Universities are the only two land grant institutions in the state, the federal government tends to delegate unique outreach programs for research and extension purposes to avoid duplication of efforts. West Virginia State's unique outreach is urban agriculture (ornamental agriculture, sustainability, and backyard farming) and aqua-agriculture (fish farming, hydroponics, and conservation of resources). Therefore, although the two programs at WVSU and WVU will meet the same standards. **Each program will be unique and non-duplicative.**

5.2.e. A statement on what societal, occupational, research, or public service needs will be met, as well as anticipated student demand for the program.

Initial Letters of Support contained in Appendix A address the unique needs for this program. Labor Statistics are quoted in these letters to support the addition of the program. When the full proposal is developed, greater stakeholder input will be sought and provided.

5.2.f. A statement on what additional resources will be needed to offer the program.

In Appendix A-Letters of Support, Mr. Jason Hughes, the West Virginia Department of Education Coordinator of Agricultural Education, visited the campus and determined that the University had the necessary faculty, science labs and agriculture facilities to deliver most of the agriculture courses.

Agriculture 330-Agriculture and Mechanization and technology will need to be delivered in the initial implementation of the program at a local county high school because of the equipment demands of the course. As the program grows, the institution will need to look at ways of creating a laboratory on campus to offer this course.

No new faculty will need to be employed to deliver the majority of this program since these faculty members are already employed by either the University or University Land Grant Programs. However, four classes will need to be taught by teacher education clinical adjunct faculty. These people have been identified and are noted in Appendix D on Tentative Teaching Assignments.

5.2.g. A statement describing the instructional delivery methodologies to be employed to deliver the program, i.e. on-site or by technology-based delivery.

The teacher education program is a formation process that begins with Education 200-Foundations of Education and concludes with education 480-486-Student Teaching. Candidates take general education, content specialization and professional education courses to prepare them for their unique calling as teachers. There are 200 clock hours of field placements prior to student teaching and 600 clock hours of student teaching. Candidates must complete field placements and/or student teaching at all the programmatic levels that appear on their West Virginia Teaching License. Candidates for the Bachelor of Science in Education with a content specialization in Agriculture Education (Pre K-Adult) will undergo the same formation process and be held to the same standards of teacher preparation.

Appendix A-Letters of Support

**Jason Hughes, Assistant Director of the Office of Career and Technical Instruction, and
Coordinator of Agricultural Education,
West Virginia Department of Education.**

**Kathy D'Antoni, Ed. D., Assistant Superintendent,
Division of Technical, Adult and Institutional Education
West Virginia Department of Education.**

**Sandra Lynch, Carver Career Center-Agriscience Instructor
Kanawha County Public Schools.**

**Mary Phillips, Agricultural Education Teacher-Cabell Midland High School,
Cabell County Schools**

Sandra Orr, Ed.D.
Chair and Professor
Department of Education
WV State University
627 Wallace Hall
PO Box 1000
Institute, WV 25112

Dear Dr. Orr:

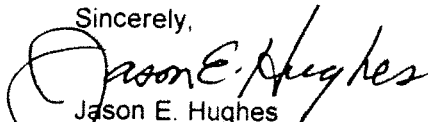
After reviewing the curriculum summary, meeting the faculty and touring the facilities, I strongly support the edition of a content specialization in Agricultural Education (PreK-Adult) to the existing teacher education program at West Virginia State University.

The designated curriculum is modern, relevant and rigorous. After my visit to the institution I am convinced more than ever West Virginia State University can deliver the curriculum. I was impressed with the state-of-the-art laboratories and equipment, the collaboration amongst the faculty, and the agricultural research being conducted.

I feel there is a tremendous need for the edition an Agricultural Education program at West Virginia State University. Existing high school agriculture programs in Cabell, Kanawha and Lincoln and soon to be Putnam counties will benefit greatly. Students graduating from these programs desiring to further their education in agriculture while staying close to home will find West Virginia State the right choice for them. I believe this program will also assist in accomplishing the goal of adding high school agricultural education programs in southern counties where they currently do not exist.

The agriculture sector possesses some of the fastest growing job areas according to the Department of Labor. The areas of food science, biotechnology and agribusiness are witnessing faster than average growth. The time is right for adding Agricultural Education to the existing teacher education program at West Virginia State University. The agriculture industry is growing and the public is more concerned than ever about their food.

Sincerely,


Jason E. Hughes

Assistant Director

Office of Career and Technical Instruction

Building 6, Room 243

1900 Kanawha Blvd. East

Charleston, WV 25305

April 25, 2011

Sandra Orr, Ed.D.
627 Wallace Hall
PO Box 1000
Institute, WV 25112

Dear Dr. Orr:

I support the edition of a content specialization in Agricultural Education (PreK-Adult) to the existing teacher education program at West Virginia State University. Agriculture plays a critical role in the economy of West Virginia and there are no agriculture education programs available to students in southern West Virginia. I commend West Virginia State University on its consideration of adding an agriculture certification to their teacher education preparation program.

Southern West Virginia schools need the addition of agriculture related programs in order to provide additional quality employment opportunities for their students. This program is the underpinnings for jobs in bioscience and offers a number of opportunities for entrepreneurial activities.

The West Virginia Department of Education and the Division of Technical, Adult and Institutional Education are willing to offer any assistance necessary in the implementation of the new specialization.

Thank you for leading the way in this important area.

Sincerely,



Kathy D'Antoni, Ed.D.
Assistant Superintendent
Division of Technical, Adult and Institutional Education

KD/



Carver Career and Technical Education Center

West Virginia School of Excellence

Sandra Orr, Ed. D.
Chair and Professor
Department of Education
WV State University
627 Wallace Hall
PO Box 1000
Institute, WV 25112

Dear Dr. Orr;

I have recently become aware of the proposal to develop an Agriculture Education program at WV State University. I strongly support the edition of a content specialization in Agriculture Education (Pre K – Adult) to the existing teacher education program at WVSU.

WVU has successfully produced Ag Ed teachers for many years. Although they have an excellent program, many potential students in the southern part of the state do not attend WVU as they prefer to attend colleges closer to home.

WV is in desperate need of Ag Ed teachers. The current population is nearing retirement age. Each year Ag Ed programs in the state are forced to close due to the unsuccessful replacement of Ag Ed teachers.

Secondary area students in many surrounding counties would greatly benefit from this program. Local Ag Ed programs can prepare students, encourage enrollment, and provide sites for field placement for student teachers.

As a lifelong Kanawha County resident, graduate of WVU, and an AG Ed teacher for 29 years, I strongly support the development of an Ag Ed program at WVSU. I would have gladly taken advantage of this kind of opportunity had it been available to me as a high school student.

I wish you success in the development of this program. Ag Ed would be an excellent addition to your existing teacher education program.

Sincerely;

Sandra Lynch-
Carver Career Center-Agriscience Instructor

Cc: Mr. Jim Casdorff-Carver Career Center Principal
Mr. Jason Hughes-Assistant Director CTI/WV Dept. of Education

Cabell Midland High School

2300 US Route 60
Ona, WV 25545



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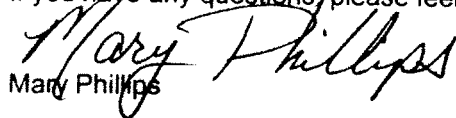
Sandra Orr, Ed.D.
Chair and Professor
Department of Education
WV State University
627 Wallace Hall
PO Box 1000
Institute, WV 25112

After reviewing your curriculum summary which was prepared by Drs. Orlando F. McMeans, Ulisses Toledo, Bill Woodrum, and Sandra Orr, I support the edition of a content specialization in Agricultural Education (Prek-Adult) to the existing teacher education program at West Virginia State University.

Students from Cabell County, and potentially all of southern WV, could benefit from this program of Agricultural Education. Often students choose an institution of higher learning based on location rather than their aspirations. An assessment of career opportunities in agriculture revealed a bright outlook for college graduates. American agriscience is the world's largest commercial industry, with assets of nearly \$1 trillion.

Opportunities in the field of agriculture education are endless. We would embrace the opportunity to work with your institution as a field placement site for student teachers as well. At Cabell Midland High School we offer curriculum in both the plant and animal sciences with heavy emphasis on the hand-on-learning approach.

If you have any questions, please feel free to contact me.


Mary Phillips

Agricultural Education Teacher
FFA Advisor
Cabell Midland High School
2300 U.S. Route 60 East
Ona, WV 25545
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"Live Pure, Speak True, Right Wrong"

Appendix B-Curriculum Summary Sheet

Agriculture Education (Pre K-Adult)

**CURRICULUM SUMMARY SHEET
AGRICULTURE PRE K-ADULT**

Prepared by

Drs. Orlando F. Mc Means, Katherine Harper and Sandra Orr and Robert L. Harrison, Jr.

Date Reviewed and approved by the WVSU EPPAC- April 8, 2011

Date reviewed and approved by the WVSU Campus-Wide Committee on Teacher
Education-April 27, 2011

Course Number	COURSE TITLE	Semester Hours
Offered by the Agriculture Department		
200	Social and Historical Foundations of Agricultural Education	3
210	Soil Science	4
220	Plant Science	4
230	Animal Science	4
300	Natural Resources and Environment	3
310	Forestry	4
320	Agricultural Business and Economics	3
330	Agriculture Mechanization and Technology	3
340	Methods of Teaching Agriculture	3
350	Program Planning and Management Pre K-Adult	3
360	Advising the FFA/SAE	3
400	Biotechnology for Agriculture	4
410	Current Trends in Agriculture-Aqua Agriculture	3
420	Current Trends in Agriculture-Urban Agriculture	3
	Total	47

General Studies Courses Required for Agriculture Education

Offered by the Biology Department		
108	Environmental Biology	4
Offered by the Chemistry Department		
105	General Chemistry I	3
107	General Chemistry I Lab	2
Offered by the Mathematics Department		
120	College Algebra	3
222	Elementary Statistics for Math and Natural Science	3

Policy 5100 Required Tests

PPST: Reading-0710; Writing-0720; and Mathematics-0730

Principles of Learning and Teaching- 0523, or 0524

Content Specialization Test: 0700-Agriculture

Agriculture Education 410 and 420 Capstone Courses

Appendix C-Course Descriptions

Agriculture Education (Pre K-Adult)

AGRICULTURE EDUCATION (PRE K-ADULT) COURSE DESCRIPTIONS

Newly Created Required Courses for Agriculture Education (Pre K-Adult)

200 Social and Historical Foundations of Agriculture (3 credit hours)

The role of agriculture education in sustaining agriculture as science and career in a global society with an overview of the historical, philosophical, sociological, and federal foundations of agricultural education.

210 Soil Science (4 credit hours)

A course in basic soil properties and land management with an emphasis on erosion prevention, soil biology and chemistry. Requires a lab. Prerequisite Biology 108, Chemistry 105 and 107 with a grade of "C" or better.

220 Plant Science (4 credit hours)

Taxonomy of plants, crop production and management and cropping systems. Requires a lab. Prerequisite Biology 108, Chemistry 105 and 107 with a grade of "C" or better.

230 Animal Science (4 credit hours)

General animal science in including anatomy and physiology and basic terminology and processes with an emphasis in the following industries: dairy cattle, beef cattle, swine, poultry, horses, sheep, goats and special industries as aqua culture. Requires a lab. Prerequisite Biology 108, Chemistry 105 and 107 with a grade of "C" or better.

300 Natural Resources and the Environment (3 credit hours)

Explores the relationship among humans, natural resources and ecosystem integrity as it relates to environmental quality, conservation outcomes and agricultural practices. Topics include: soil erosion, conservation, the effects of agricultural chemicals, endangered species and stocking / reintroduction programs.

310 Forestry (4 credit hours)

An overview of ecological principles and silviculture practices for sustainable management of ecosystem structure and function with an emphasis on production and management for ornamental and commercial applications. Requires a lab. Prerequisite: Agriculture Education 210 and 220 with a grade of "C" or better.

320 Agricultural Business and Economics (3 credit hours)

A basic overview of business, marketing and planning principles related to economic and management issues of agricultural production systems. Prerequisite: Agriculture Education 200 with a "C" or better.

330 Agriculture Mechanization and Technology (3 credit hours)

Power machinery and equipment. Mechanical principles and practices of metal welding and cutting, metal and wood working. Soil and water technology: surveying, agriculture construction and safety management. Requires a lab and delivered at a local vocational school. Permission of instructor required.

330 Methods of Teaching Agriculture (3 credit hours)

Strategies and techniques of teaching agriculture, emphasizing the planning, delivery and assessments of lessons that address the West Virginia Content Standards and Objectives for Agriculture and Forestry. Requires a field placement of 30 clock hours. PREREQUISITE: EDUC 316 with a "C" or better.

340 Program Planning and Management Pre K-Adult (3 credit hours)

A continuation of Agriculture 330 with an emphasis on issues related to safety including: the welfare of students; the maintenance and disposal of materials; proper techniques for the preparation, storage, dispensing, supervision, and disposal of all materials used in agriculture instruction; emergency procedures, safe equipment maintenance, and insurance safety procedures appropriate for the activities and the abilities of students; and treat all living organisms, used in the classroom or found in the field, in a safe, humane, and ethical manner; and respect legal restrictions on their collection, keeping, and use. PREREQUISITE: Agriculture Education 330 with a "C" or better.

360 Advising the FFA/SAE (3 credit hours)

A field based course to develop the professional knowledge skills and dispositions to support curricular and extracurricular agriculture education programs such as Future Farmers of America and Supervised Agricultural Experience. Requires 30 clock hours of internship in a public school or state department of education setting. PREREQUISITES: Agriculture Education 330 and 340 with a "C" or better.

400 Biotechnology for Agriculture (4 credit hours)

An overview of the role of biotechnology in the field of agriculture. Requires a lab. PREREQUISITES: Junior standing. Biology 108, Chemistry 105 and 107 and Math 222 with a grade of "C" or better.

410 Current Trends in Agriculture-Aqua Agriculture (3 credit hours)

An in-depth step-by step study of the principles and practices underlying commercial aqua agriculture. Practices in the United States and West Virginia will be the primary focus of the course with an emphasis on sustainability.

420 Current Trends in Agriculture-Urban Agriculture (3 credit hours) An in-depth step-by step study of the principles and practices underlying commercial and residential urban agriculture. Current Best Practices in the world and United States will be the primary focus of the course with an emphasis on sustainability.

Currently Existing Required Courses Offered by the Biology Department

108 Environmental Biology (4 credit hours)

A comprehensive, issues based examination of the Earth's environment, and humanity's impact on it. Students will complete a group project on a topic in environmental biology, a laboratory experience consisting of a series of independent problems in environmental biology, keep a journal, in addition to mastering the standard lecture material. Does not count toward a major in Biology. Local field trips may also be required. Two lecture and two laboratory hours per week.

Currently Existing Required Courses Offered by the Chemistry Department

105 General Chemistry I (3 credit hours)

Designed for students desiring further studies in natural sciences, medicine, agriculture, and engineering. Contents include pertinent mathematics, periodicity of elements, stoichiometry, gas laws, energy changes, solutions, equilibria, acid- base theories, and descriptive chemistry. (High school chemistry is desirable and high school or college algebra is necessary for an understanding of the material covered in this course). Three hour lecture and one recitation hour per week. Prerequisite: Concurrent Math 120 or Math ACT of 23+.

107 General Chemistry I Lab (2 credit hours)

An introduction to the principles of experimentation and laboratory techniques as applied to the experimental science of chemistry. Three hours per week. Prerequisites: CHEM 105 or current enrollment in CHEM 105.

Currently Existing Required Courses Offered by the Mathematics Department

120 College Algebra (3 credit hours)

Equations and inequalities, functions, systems of equations and inequalities, graphing, rational expressions, radical expressions, and applications of the above. PREREQUISITES: ACT Math Score of 19 or equivalent.

222 Elementary Statistics for Math and Natural Science (3 credit hours)

Descriptive statistics, probability distributions, experiment design and sampling, confidence intervals, hypothesis testing. Statistical software packages will be used. Prerequisites: "C" or better in Math 120 or permission of instructor.

Appendix D-Tentative Faculty to Deliver the Program
Agriculture Education (Pre K-Adult)-Faculty Assignments

Agriculture Education (Pre K-Adult)-Tentative Faculty Assignments

Name	Assignment
	Administrative Team
Dr. Orlando Mc Means	Special Assistant to the President for Research and Public Service
Dr. Kathy Harper	Dean of the College of Natural Sciences and Mathematics
Dr. Robert L. Harrison, Jr.	Dean of the College of Professional Studies
Dr. Sandra Orr	Education Department Chairperson
	Agriculture Education Faculty
Dr. Bill Woodrum	200-Social and Historical Foundations of Agriculture Education
Dr. Barbara Liedl	210-Soil Science
Dr. Barbara Liedl	220-Plant Science
Dr. Timothy Ruhnke	230-Animal Science
Dr. Vickie Wolfe	300-Natural Resources and the Environment
Dr. Steve Richards	310-Forestry
Dr. Steve Richards	320-Agriculture Business and Economics
*Mary Phillips	330-Agriculture Mechanization and Technology
*Sandra Lynch	340-Methods of Teaching Agriculture
*Sandra Lynch	350-Program Planning and Management Pre K-Adult
*Mary Phillips	360-Advising the FFA/SAE
Dr. Richard Ford	400-Biotechnology for Agriculture
Dr. Jonathan Eya	410-Current Trends in Agriculture-Aqua Agriculture
Dr. Barbara Liedl	420-Current Trends in Agriculture-Urban Agriculture
	Agriculture Education General Education Faculty
Dr. Vickie Wolfe	108-Environmental Biology
Dr. Tom Guetzloff	105-General Chemistry I
Dr. Tom Guetzloff	107-General Chemistry I-Lab
Dr. Wayne Akey	120-College Algebra
Dr. Sonya Armstrong	222-Elementary Statistics for Math and Natural Science

***Denotes Adjunct Clinical Faculty**