Counseling, Educational Psychology and Special Education—CEP

966 Psychological Diagnosis and Assessment I 
Fall. 3(3-0) RB: (CEP 960) R: Open only to Ph.D. students in the Counseling Psychology major. 

967 Psychological Diagnosis and Assessment II 
Spring. 3(3-0) RB: (CEP 966) R: Open only to Ph.D. students in the Counseling Psychology major. 

968 Research Methods in Counseling Psychology 
Fall. 3(3-0) RB: (CEP 967 and CEP 994B) R: Open only to Ph.D. students in the Counseling Psychology major. Research topics and designs in counseling psychology, with emphasis on the development of a viable research proposal.

969 Supervision of Counseling Psychologists 
Spring. 3(2-3) RB: (CEP 967 and CEP 994B) R: Open only to Ph.D. students in the Counseling Psychology major. Theoretical, empirical and practical aspects of the supervisory relationship. Process and outcome variables.

970 Counseling Across Educational Settings 
Spring of even years. 3(3-2) RB: (CEP 960 and CEP 961 and CEP 962) R: Open only to doctoral students in the Counseling Psychology or Counselor Education or Rehabilitation Counseling Education or School Psychology major. Development of counseling programs and delivery of counseling services across multiple educational settings: elementary and secondary schools, alternative educational sites, community colleges, and universities.

971 Teaching Practicum in Counselor Education 
Fall of even years. 3(3-2) P:M: (CEP 970) R: Open only to doctoral students in the Counseling Psychology or Counselor Education or Rehabilitation Counseling Education or School Psychology major. Development of personalized teaching portfolios. Preparation of training modules that address critical issues in counseling and teaching evaluation.

975 Psychological Assessment of Cognitive Dysfunction 
Spring of even years. 3(3-0) RB: (CEP 966 or CEP 880) R: Open only to doctoral or Educational Specialist students in the Department of Counseling, Educational Psychology and Special Education. Human neuroanatomy and the functional organization of the central nervous system. Cognitive and behavioral sequelae of neurological disability. Neuropsychological assessment of intellect, memory, learning abilities, visuospatial functioning, and problem solving in children and adults.

982 Seminar in Counseling, Educational Psychology and Special Education 
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to Ph.D. students in the College of Education. Seminars in the various fields of emphasis in counseling, educational psychology, and special education.

990 Independent Study 
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to Ph.D. students. Individual or small group study, guided by a faculty member, in the areas of Counseling, Educational Psychology and Special Education.

991A Special Topics in Learning, Technology and Culture 
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to doctoral students in the College of Education. Special topics in learning, technology, and culture in education.

991B Special Topics in Educational Statistics and Research Design 
Fall, Spring. 4(4-0) A student may earn a maximum of 16 credits in all enrollments for this course. RB: (CEP 933) R: Open only to Ph.D. students. Special topics in educational statistics and research design.

994A Counseling Psychology Practicum I 
Fall. 3(0-9) RB: (CEP 960) R: Open only to Ph.D. students in the Counseling Psychology major. Supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.

994B Counseling Psychology Practicum II 
Spring. 3(0-9) P:M: (CEP 994A) R: Open only to Ph.D. students in the Counseling Psychology major. Supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.

994C Advanced Practicum in Counseling Psychology 
Spring. 3(0-9) P:M: (CEP 994B) R: Open only to Ph.D. students in the Counseling Psychology major. Client conceptualization, assessment, intervention design, ethical and professional development issues, supervision, and consultation.

995 Practicum in Research Design and Data Analysis 
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. RB: (CEP 933) R: Open only to doctoral students in the College of Education. Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.

999 Doctoral Dissertation Research 
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 54 credits in all enrollments for this course. R: Open only to doctoral students in the Department of Counseling, Educational Psychology and Special Education. Doctoral dissertation research.

CRIMINAL JUSTICE

School of Criminal Justice
College of Social Science

110 Introduction to Criminal Justice 
Fall. 4(4-0) R: Open only to criminal justice majors or approval of the School of Criminal Justice.

210 Introduction to Forensic Science 
Fall. 4(4-0) R: Open only to criminal justice majors.

292 Methods of Criminal Justice Research 
Fall, Spring. 4(4-0) RB: (CJ 110 or SOC 100) R: Open only to seniors in the Criminal Justice major or approval of the School of Criminal Justice.

294 Criminal Justice Professional 
Fall, Spring. 4(4-0) RB: (CJ 110 and CJ 220) R: Open only to seniors in the Criminal Justice major or approval of the School of Criminal Justice.

335 Police Process 
Fall, Spring. 4(4-0) R: (CJ 292) R: Open only to seniors in the Criminal Justice major.

355 Juvenile Justice Process 
Fall, Spring. 4(4-0) P:M: (CJ 220) R: Open only to seniors in the Criminal Justice major. The juvenile justice system and law. Theories of juvenile delinquency and deviance. Sociological, psychological, and anthropological perspectives.
365 Corrections Process  
Fall, Spring. 4(4-0) RB: (CJ 292) R: Open only to juniors or seniors in the Criminal Justice major. 
Historical and contemporary views of offender management and treatment. Corrections system operation. Effects of institutionalization. Alternatives to incarceration.

375 Criminal Law Process  
Fall, Spring. 4(4-0) RB: (CJ 110 or concurrently and CJ 292) R: Open only to juniors or seniors. 
Administration of criminal law. Investigation, prosecution, adjudication, and sentencing. Constitutional safeguards and legal controls on official action.

385 Introduction to Private Security  
Fall. 3(3-0) R: Not open to freshmen or sophomores. 
Relationships of private protective services with public law enforcement. Individuals, businesses, and governments providing prevention, protection, investigation and disaster recovery services. Protection of persons, property, and information.

400H Honors Study  
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Honors College seniors and approval of school. 
Faculty-supervised group or individual study dealing with a phase of the criminal justice system.

421 Minorities, Crime, and Social Policy  
Spring of odd years. 3(3-0) P:M: (CJ 110 or SOC 100) R: Open only to juniors or seniors. 
A socio-historical analysis of the effects of race and ethnicity on legitimate social opportunities, criminal behavior, victimization, and differential judicial processing. Analysis of the impact of assimilation and acculturation on criminal behavior, victimization, and criminal justice processes.

422 Comparative and Historical Criminal Justice  
Fall of odd years. 3(3-0) RB: (CJ 110) R: Open only to juniors or seniors in the Criminal Justice major. 
Comparative study of criminal justice systems. Theories, types, and effects of intervention.

425 Women and Criminal Justice  
Spring of even years. 3(3-0) 
Interdepartmental with Women's Studies. RB: (CJ 220 or WS 201) R: Open only to juniors or seniors. 
Theories on women's victimization and criminality. Women's experiences as victims, offenders, and criminal justice employees. Laws and their effects on the rights of women in the criminal justice system.

432 Community Policing  
Spring. 3(3-0) RB: (CJ 335) R: Open only to juniors or seniors in the Criminal Justice major. 
Community policing philosophy, applications, issues, and contemporary research. Community policing models.

433 Law Enforcement Intelligence Operations  
Spring. 3(3-0) RB: (CJ 335) R: Open only to juniors or seniors in the Criminal Justice major. 
Law enforcement intelligence as an analytic tool for case development and resource allocation. Historical, ethical, legal, and operational issues affecting current practice.

434 Police Administration (W)  
Fall. 3(3-0) P:M: Completion of Tier I writing requirement. RB: (CJ 335) R: Open only to seniors in the Criminal Justice major. 
Organizational theory, leadership, communications, and labor relations in police administration. Historical and legal perspectives.

435 Investigation Procedures  
Fall. 3(3-0) RB: (CJ 375) R: Open only to seniors in the Criminal Justice major. 

455 Delinquency and Treatment Approaches  
Spring. 3(3-0) RB: (CJ 355) R: Open only to juniors or seniors in the Criminal Justice major. 
Investigation and evaluation of delinquency. Prevention programs and treatment approaches. Implementation and assessments of correctional and community intervention strategies in agency settings.

456 Criminal Careers and Career Criminals (W)  
Spring. 3(3-0) P:M: Completion of Tier I writing requirement. RB: (CJ 355 or CJ 365) R: Open only to seniors in the Criminal Justice major. 

465 Correctional Programming and Analysis  
Spring. 3(3-0) RB: (CJ 355 or CJ 365) R: Open only to juniors or seniors in Criminal Justice. 
Contemporary institutional and community corrections programs. Research on adult and juvenile crime prevention, diversion, and treatment programs.

466 Corrections Organizations and Systems (W)  
Fall. 3(3-0) P:M: Completion of Tier I writing requirement. RB: (CJ 355 or CJ 365) R: Open only to seniors in the Criminal Justice major. 
Management of correctional organizations. Interactions between correctional organizations and their political and cultural environments.

471 Law of Corrections  
Fall of odd years. 3(3-0) RB: (CJ 375) R: Open only to juniors or seniors in the Criminal Justice major. 
Constitutional limitations and the impact of law on correctional practice. Due process, prisoners' rights, and parole and probation.

474 Law and Criminal Justice Policy  
Spring. 4(4-0) RB: (CJ 375) R: Open only to juniors or seniors in the Criminal Justice or interdisciplinary Studies in Social Science major. 
Impact of law on police practices, court processes, and corrections institutions and programs. Development, implementation, and evaluation of judicial policies.

485 Asset Protection Management (W)  
Spring. 3(3-0) P:M: Completion of Tier I writing requirement. RB: (CJ 385) R: Open only to seniors in the Criminal Justice major. 
Risk analysis, security surveys, and audits to control losses due to crime, errors, and safety and environmental hazards. Management of asset protection and loss prevention programs in business, industry, and government.

490 Independent Study  
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (CJ 335 and CJ 355 and CJ 365 and CJ 375) R: Open only to juniors or seniors in the Criminal Justice major. Approval of school. 
Individual study in fields of criminal justice, under direct supervision of a faculty member.

491 Topics in Criminal Justice  
Fall, Spring. 2 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. RB: (CJ 292) R: Open only to juniors or seniors in the Criminal Justice major. Approval of school. 
Special issues in criminal justice.

494 Criminal Justice Practicum  
Fall, Spring, Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. RB: (CJ 335 and CJ 355 and CJ 365 and CJ 375) R: Open only to juniors or seniors in the Criminal Justice major. Approval of school. 
Observation, participation and study in selected criminal justice agencies.

801 Crime Causation, Prevention, and Control  
Fall. 3(3-0) R: Open only to graduate students in Criminal Justice. 
Theories of crime causation. Translation of theory to policy.

805 Survey in Forensic Science  
Fall. 4(4-0) R: Open only to students in the Forensic Science major. 
Scientific analysis of physical evidence. Four major aspects of physical evidence using real criminal and civil cases: generation of physical evidence by criminal activity; collection and preservation of physical evidence; analysis of physical evidence by forensic science laboratory; presentation of scientific expert testimony in court.

809 Issues in Criminal Justice  
Fall, Spring. 2 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course. RB: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major. 
Special issues in criminal justice research and management.

810 Proseminar in Criminal Justice  
Fall. 3(3-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major. 
Survey of classical and recent literature in criminal justice. Trends and issues that transcend the components of the criminal justice system.
811 Design and Analysis in Criminal Justice Research
Fall. 3(3-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.

812 Criminal Justice Management Seminar
Fall. 3(3-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Organization theory and behavior for the criminal justice agency. Organization and policy planning, budgeting, forecasting, human resource management, and project implementation.

814 Seminar in Management Topics
Spring of odd years. 3(3-0) R: Open only to graduate students in the School of Criminal Justice or the Social Science-Criminal Justice major.
Critical application of selected analytical tools to managing justice agencies. Human and financial resources, organizational design, productivity measurement and enhancement, and resource acquisition and allocation.

815 Proseminar in Criminal Investigation
Spring. 3(3-0) RB: (CJ 811) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Research on the criminal justice process, investigation and role of evidence in the administration of justice. Ethical issues.

817 Law and Forensic Science
Spring. 2(2-0)
Legal aspects of forensic science. Adjudicative process, admissibility of scientific evidence, laboratory reports, hearsay, relevant case materials and expert testimony.

819 Forensic Analysis of Drugs and Alcohol
Fall. 3(1-5) R: Open only to graduate students in the School of Criminal Justice.
Techniques and processes in analysis of physical evidence including spectroscopy, chromatography, microscopy. Emphasis on controlled substances.

820 Forensic Chemistry and Microscopic Evidence
Spring. 3(1-5) RB: (CJ 819) R: Open only to graduate students in the School of Criminal Justice.
Continuation of CJ 819. Analysis of trace evidence including hairs and fibers, paints and coatings, explosives and fire residues, glass and soil.

825 Forensic Biology
Spring. 1 to 6 credits.
A student may earn a maximum of 6 credits in all enrollments for this course.
Analysis of blood and body fluids. Basic forensic serology and DNA analysis.

833 Managing Police Organizations
Fall. 3(3-0) RB: (CJ 810) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Issues and practices in police management. Management philosophy and personnel management.

836 Assessment of Police Policies and Operations
Spring of even years. 3(3-0) RB: (CJ 835) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Doctor of Philosophy Degree in Criminal Justice.
Recent policy-related research and its application to the deployment of human resources.

855 Delinquency Prevention and Control
Fall. 3(3-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.

865 Adult Corrections
Fall of odd years. 3(3-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Doctor of Philosophy Degree in Criminal Justice.
Traditional and contemporary adult correctional practices. Social, political, economic, and organizational factors affecting correctional policies.

866 Adult and Juvenile Corrections Programs
Spring. 3(3-0) RB: (CJ 855 or CJ 865) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Adult and juvenile crime prevention and correctional programs. Application of research findings to management issues.

873 Legal Issues in Criminal Justice
Spring of even years. 3(3-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Doctor of Philosophy Degree in Criminal Justice.
Law as an instrument of social control. Legal basis of criminal law and criminal justice policies. Legal limitations on criminal justice institutions and policies.

885 Security Management
Fall. 3(3-0) RB: (CJ 811 or concurrently) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Organization and management of security operations in business, industry and government.

886 Security Administration
Spring. 3(0-0) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.

887 Quantitative Methods in Criminal Justice Research
Spring. 3(3-0) RB: (CJ 811) R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Descriptive and inferential statistics and computer use in criminal justice research.

890 Independent Study
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major. Approval of school.
Individual research and writing under faculty supervision.

894 Practicum
Fall, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Methods of policy analysis in criminal justice settings. Policy analysis for the formulation, adoption and implementation of changes.

899 Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to master's students in the School of Criminal Justice or to doctoral students in the Social Science-Criminal Justice major.
Planned research and writing directed by student's thesis committee.

901 Seminar in Contemporary Criminal Justice Theory
Fall. 3(3-0) R: Open only to graduate students in Criminal Justice or in Social Science-Criminal Justice.
Theoretical perspectives and issues in criminal justice and criminology.

902 Seminar in Criminal Justice Systems
Spring of even years. 3(3-0) R: Open only to graduate students in Criminal Justice or in Social Science-Criminal Justice.
Contemporary issues in the criminal justice system.

903 Research Utilization in Criminal Justice
Spring of odd years. 3(3-0) R: Open only to graduate students in Criminal Justice or in Social Science-Criminal Justice.
Research application in criminal justice theory and practice.

904 Criminal Justice Organizations and Processes
Fall. 3(0-0) R: Open only to graduate students in Criminal Justice.

905 Law and Society
Spring. 3(3-0) R: Open only to graduate students in Criminal Justice.
Theoretical perspectives on law, impact of law on society and the criminal justice system.
Basic principles of crop production including soil spacing, crop rotation, and environmental concerns.

Advanced topics in Criminal Justice

Crop Production

Data Analysis

Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P.M.: (CJ 906) R: Open only to graduate students in Criminal Justice. Advanced quantitative analysis techniques for criminal justice data.

Advanced Topics in Criminal Justice

Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in Criminal Justice.

Advanced Topics in Criminal Justice

Spring. 3(3-0) Intensive study of one subfield of criminal justice. Critical evaluation of the literature.

Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 12 credits. A student may earn a maximum of 50 credits in all enrollments for this course. R: Open only to doctoral students in Criminal Justice. Doctoral dissertation research.

CROP AND SOIL SCIENCES CSS

Department of Crop and Soil Sciences

College of Agriculture and Natural Resources

Crop Production

Winter. 3(2-2) R: Open only to students in the Institute of Agricultural Technology. SA: CSS 054 Not open to students with credit in CSS 101 or CSS 054. Basic principles of crop production including soil fertility, weed control, tillage, cultivar selection, row spacing, crop rotation, and environmental concerns. Seed, crop, and weed identification.

Introduction to Crop Science

Fall. 3(2-2) Principles of crop management, improvement, and fertilization. International and sustainable agriculture. Water quality issues.

Computer Applications in Agronomy

Fall. 2(1-2) R: Open only to students in the College of Agriculture and Natural Resources. Not open to students with credit in CSE 101. Use of computers in agriculture. Basic computer operating systems. Management and use of storage media. Laboratory experience in word processing, spread sheets, data bases, programming languages, networking, and software related to agriculture.

Golf Turf Irrigation

Spring. 2(2-2) R: Open only to students in the Institute of Agricultural Technology. SA: CSS 078 Not open to students with credit in CSS 078. Golf course irrigation systems: installation and maintenance including water management. Offered first ten weeks of semester.

181 Pesticide and Fertilizer Application Technology

Fall. 3(2-2) SA: CSS 081 Effective and efficient application of pesticides and fertilizers to turf; pesticide handling, legal, and environment concerns. Calibration of equipment.

201 Forage Crops

Fall. 3(2-2) Forage crop production, management, and utilization. Crop identification. Soil fertilization. Planting and harvesting of grasses and legumes.

210 Fundamentals of Soil and Landscape Science

Fall, Spring. 3(2-3) Interdepartmental with Forestry. RB: (CEM 141) Agricultural and natural resource ecosystems: soil, vegetation and ground water components. Energy, water and nutrient cycles. Soil classification and mapping. Land management and use issues.

211 Turfgrass and the Environment

Spring. 2(3-0) P.M.: (CSS 232) RB: (CSS 210) R: Open only to students in the Institute of Agricultural Technology. Pesticide and nutrient fate, site assessment, fuel use, equipment washing systems and criteria for recognizing sensitive sites. Conservation and best management practices to maximize protection of natural resources. Offered first ten weeks of semester.

222 New Horizons in Biotechnology

Fall. 2(2-0) Interdepartmental with Entomology. Perspectives on biotechnology for safer food production, environmental quality, and improved human health. Impacts of biotechnology on the national economy. Political and ethical ramifications of applied biotechnology.

232 Introduction to Turfgrass Management

Fall. 3(2-2) P.M.: (CSS 210 or concurrently) RB: (CSS 110 or CSE 101) Turfgrass utilization, identification, establishment and management principles. Responses to various cultural practices.

242 Athletic Field Maintenance

Fall. 2(2-0) P.M.: (CSS 232) Art and science of athletic field maintenance including root-zone modification, traffic wear management, irrigation technologies, wet weather strategies, safety concerns, legal issues, and crisis management. Field trips required.

262 Turfgrass Management Seminar

Fall. 1(2-0) A student may earn a maximum of 2 credits in all enrollments for this course. P.M.: (CSS 232 or concurrently) Presentations by individuals involved in turfgrass and golf course management. Topics include golf course construction and operations, preparation for tournaments, and public relations.

267 Turfgrass Practices


269 Turfgrass Strategies

Spring. 2(3-0) P.M.: (CSS 232) Issues in turfgrass management including employee relations, construction, and environmental problems. Offered first ten weeks of semester.

272 Turfgrass Soil Management

Fall. 3(2-2) RB: (CSS 043 or CSS 210) Not open to students with credit in CSS 044 or CSS 342. Impact of fertilization programs on turfgrasses and the environment. Irrigation, drainage, cultivation, topdressing, amendments and pH control of turfgrass soils.

282 Turfgrass Physiology

Spring. 2(3-0) P.M.: (CSS 232) RB: (BOT 105) Not open to students with credit in CSS 332. Physiological principles of turfgrass growth and development with emphasis on water relations, light, temperature, respiration, photosynthesis, mineral nutrition, and hormone action. Impact of practices such as mowing, cultivation, and traffic on turfgrass growth.

289 Civilizations, Food Crops and the Environment

Fall, Spring. 3(3-0) Interdepartmental with Agriculture and Natural Resources. Administered by Agriculture and Natural Resources. SA: TJH 289 Role of the major food crops in the survival of civilizations and cultures from the past to the present, and the resulting environmental impacts.

290 Independent Study in Crop and Soil Science

Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to students in the Institute of Agricultural Technology. SA: CSS 057 Not open to students with credit in CSS 057. Field, laboratory, or library research projects.

292 Management of Turfgrass Weeds

Spring. 2(2-2) P.M.: (CSS 232) RB: (BOT 105) Chemical, biological, and cultural methods of managing turfgrass weeds. Environmental considerations in weed management.

310 Soil Management and Environmental Impact

Spring. 3(3-0) P.M.: (CSS 210) Management of soil fertility and chemical properties for the production of food and fiber. Soil management systems that reduce the environmental impact on soil, water and air resources and maximize crop production potential.

322 Advanced Turf Management

Spring. 3(3-0) P.M.: (CSS 232) and completion of Tier I writing requirement. Effect of light, heat, cold, drought, and traffic on turfgrass growth and development. Impact of practices such as mowing, cultivation, and compaction on the growth of grasses.

350 Introduction to Plant Genetics

Spring. 3(4-0) P.M.: (BOT 105 or BS 111) R: Not open to freshmen or sophomores. Fundamentals of plant genetics with applications to agriculture and natural resources.

355 Environmental Soil Chemistry

Fall. 3(2-2) P.M.: (CEM 143 and CSS 210) Soil chemistry concepts as they apply to major chemical groups of environmental importance including metals, nitrogen, phosphorus, organic contaminants, and pesticides.