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 Educational Psychology
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.

CRIMINAL JUSTICE  CJ
School of Criminal Justice
College of Social Science

110. Introduction to Criminal Justice
Fall, Spring, Summer. 3(3-0)
Description and analysis of agencies and processes involved in administration of justice in the United States.
QA: C J 110

210. Introduction to Forensic Science
Spring. 4(4-0)
QA: C J 210

220. Criminology
Fall, Spring. 3(3-0) Interdepartmental with Sociology.
P: C J 110 or SOC 100. R: Open only to undergraduate students in Criminal Justice or Forensic Science or approved of school.
QP: C J 110, SOC 241 QA: C J 320, SOC 320

292. Methods of Criminal Justice Research
Fall, Spring. 4(4-0)
P: C J 220. R: Not open to freshmen. Open only to students in the School of Criminal Justice.
Logic, design, analysis and ethical principles in criminal justice research. Indicators of crime and its control.
QP: C J 320, SOC 320 or QA: C J 492

335. Juvenile Justice Process
Fall, Spring. 3(3-0)
P: C J 292. R: Open only to juniors or seniors in Criminal Justice or Forensic Science. Roles, responsibilities, issues, and trends pertinent to contemporary law enforcement organizations in the juvenile justice system.
QP: C J 492 QA: C J 335

365. Corrections Process
Fall, Spring. 3(3-0)
P: C J 292. R: Open only to juniors or seniors in Criminal Justice or Forensic Science.
Intermediate supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.
QP: C J 492 QA: C J 492

375. Criminal Law Process
Fall, Spring. 4(4-0)
P: C J 292. R: Open only to juniors or seniors in Criminal Justice or Forensic Science.
Administration of criminal law. Investigation, prosecution, adjudication, and sentencing. Constitutional safeguards and legal controls on official action.
QP: C J 492 QA: C J 375

385. Introduction to Private Security
Fall. 3(3-0)
R: Not open to freshmen and sophomores.
Relationships of private protective services with public law enforcement. Individuals, businesses, and government providing prevention, protection, intervention and disaster recovery services. Protection of persons, property, and information.
QA: C J 495

400B. 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 Ph.D. students.

419. Forensic Science I
Fall. 3(3-0)
P: C J 310, CEM 255, CEM 325, PHY 355, PHY 252. R: Open only to seniors in Forensic Science.
QP: C J 210, C J 492, CEM 243, CEM 344, CEM 245, PHY 358, PHY 255 QA: C J 312, C J 313

420. Forensic Science II
Spring. 3(3-0)
P: C J 419. R: Open only to seniors in Forensic Science.
QP: C J 312, C J 313 QA: C J 314

421. Sociology
Fall, Spring, Summer. 3(3-0)
P: Open only to juniors or seniors in Criminal Justice or Forensic Science.
A socio-historical analysis of the effects of race and ethnicity on 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.
QP: C J 110 QA: C J 493

422. Comparative and Historical Criminal Justice
Fall of odd-numbered years. 3(3-0)
P: CJJ 110. R: Open only to juniors or seniors in Criminal Justice or Forensic Science.
Comparative study of criminal justice systems. Theories, types, and effects of intervention.
QP: C J 110 QA: C J 322

425. Women and Criminal Justice
Spring of odd-numbered years. 3(3-0) Interdepartmental with Women's Studies.
P: C J 292 or WS 201. R: Open only to juniors in Criminal Justice and Women's Studies.
Theories on women's victimization and criminality. Women's experiences as victims, offenders, and criminal justice employees. Laws and their effects on the clients. The rights of women in the criminal justice system.
QP: C J 320, SOC 320, WS 201 QA: C J 425

432. Community Policing
Fall, Spring. 3(3-0)
P: C J 335. R: Open only to juniors or seniors in Criminal Justice or Forensic Science.
Community policing philosophy, applications, issues, and contemporary research. Community policing models.
QP: C J 335 QA: C J 348

433. Law Enforcement Intelligence
Fall. 3(3-0)
P: C J 335. R: Open only to seniors in Criminal Justice or Forensic Science.
Law enforcement intelligence is an analytic tool for understanding and intervention. Historical, ethical, legal, and operational issues affecting current practice.
QP: C J 335 QA: C J 469

434. Police Administration
Fall. 3(3-0)
P: C J 335. R: Open only to seniors in Criminal Justice or Forensic Science.
Organizational theory, leadership, communications, and labor relations in police administration. Historical and legal perspectives.
QP: C J 335 QA: C J 434

435. Forensic Science Laboratory Practice
Fall. 3(3-0)
P: C J 310, CEM 255, CEM 325, PHY 355, PHY 252. R: Open only to seniors in Forensic Science.
QP: C J 210, C J 492, CEM 243, CEM 344, CEM 245, PHY 358, PHY 255 QA: C J 312, C J 313

436. Investigation Procedures
Fall of odd-numbered years. 3(3-0)
P: C J 375. R: Open only to seniors in Criminal Justice or Forensic Science.
Laws of evidence controlling investigative procedures. Crime scene canvass, Multi-agency investigation.
QP: C J 375 QA: C J 315
Descriptions—Criminal Justice

of Courses

455. Delinquency and Treatment Approaches
Spring, 3(3-0)
P: CJ 355, R: Open only to juniors or seniors in Criminal Justice or Forensic Science.
QP: C J 355 QA: C J 455

456. Criminal Careers and Career Criminals
Spring, 3(3-0)
P: CJ 355 or CJ 365. R: Open only to seniors in Criminal Justice.
QP: C J 355, C J 365

458. Correctional Programming and Analysis
Spring, 3(3-0)
P: CJ 355 or CJ 365. R: Open only to seniors in Criminal Justice or Forensic Science.
Contemporary institutional and community corrections programs. Research on adult and juvenile crime prevention, diversion, and treatment programs.
QP: C J 355 or C J 365 QA: C J 455

461. Law of Corrections
Fall of odd-numbered years, 3(3-0)
P: CJ 372. R: Open only to juniors or seniors in Criminal Justice or Forensic Science.
Constitutional limitations and the impact of law on correctional practice. Due process, prisoners' rights, and parole and probation.
QP: C J 379 QA: C J 466

471. Criminal Law
Spring, 4(4-0)
P: CJ 375. R: Open only to juniors or seniors in Forensic Science or Criminal Justice.
Criminal law as a means of preserving and protecting life and property.
QP: C J 375 QA: C J 471

485. Asset Protection Management
Spring, 3(3-0)
P: CJ 386. R: Open only to seniors in Criminal Justice.
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.
QP: C J 485 QA: C J 486

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.
P: CJ 335, CJ 355, CJ 365, CJ 375. R: Open only to juniors or seniors in Criminal Justice or Forensic Science. Approval of school.
Individual study in fields of criminal justice, under direct supervision of a faculty member.
QP: C J 335, C J 355, C J 365, C J 375 QA: C J 480

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.
P: CJ 390. R: Open only to juniors or seniors in Criminal Justice or Forensic Science. Approval of school.
Special issues in criminal justice.
QP: C J 490 QA: C J 490

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.
P: CJ 355, CJ 356, CJ 375. R: Open only to juniors or seniors in Criminal Justice or Forensic Science. Approval of school.
Observation, participation and study in selected criminal justice agencies.
QP: C J 355, C J 356, C J 375 QA: C J 490

495. Delinquency Prevention and Control
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
P: CJ 355 or CJ 365. R: Open only to graduate students in Criminal Justice.
Historical, economic, ethical, policy, and organizational issues of delinquency prevention and control programs. Law and public policy. Program evaluation.
QP: C J 355

505. Adult Corrections
Fall, 3(3-0)
P: CJ 355 or CJ 365. R: Open only to graduate students in Criminal Justice.
Traditional and contemporary adult correctional programs. Social, political, economic, and organizational factors affecting correctional policies.
QP: C J 355

506. Adult and Juvenile Corrections Programs
Fall, 3(3-0)
P: CJ 355 or CJ 365. R: Open only to graduate students in Criminal Justice.
Adult and juvenile crime prevention and correctional programs. Application of research findings to management issues.
QP: C J 355 or C J 365 QA: C J 366

508. Security Management
Fall, 3(3-0)
P: CJ 381 or concurrently, R: Open only to graduate students in Criminal Justice.
Administrative and quantitative techniques for security operations. Statistical analyses, operations research, and computer techniques.
QP: C J 385 QA: C J 386

509. Quantitative Methods in Criminal Justice Research
Fall, 3(3-0)
P: CJ 381. R: Open only to graduate students in the School of Criminal Justice.
Descriptive and inferential statistics and computer use in criminal justice research.
QP: C J 381 QA: C J 382

810. Proseminar in Criminal Justice
Fall, 3(3-0)
P: Open only to graduate students in the School of Criminal Justice.
Survey of classical and recent literature in criminal justice. Trends and topics that transcend the components of the criminal justice system.
QP: C J 810

811. Design and Analysis in Criminal Justice Research
Fall, 3(3-0)
P: Open only to graduate students in the School of Criminal Justice.
QP: C J 811

812. Criminal Justice Management Seminar
Fall, 3(3-0)
P: Open only to graduate students in the School of Criminal Justice.
Organization theory and behavior for the criminal justice agency. Organization and policy planning, budgeting, forecasting, human resource management, and project implementation.
QP: C J 812

814. Seminar in Management Topics
Spring, 3(3-0)
P: Open only to graduate students in the School of Criminal Justice.
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.
QP: C J 813, C J 814

815. Proseminar in Criminal Investigation
Spring, 3(3-0)
P: CJ 811. R: Open only to graduate students in the School of Criminal Justice.
QP: C J 811 QA: C J 815

835. Managing Police Organizations
Fall, 3(3-0)
P: CJ 810. R: Open only to graduate students in the School of Criminal Justice.
Issues and practices in police management. Management philosophy and personnel management.
QP: C J 810 QA: C J 837

836. Assessment of Police Policies and Operations
Spring, 3(3-0)
P: CJ 855. R: Open only to graduate students in the School of Criminal Justice.
Recent policy-related research and its application to the deployment of human resources.
QP: C J 857 QA: C J 838

886. Security Administration
Spring, 3(3-0)
P: CJ 381. R: Open only to graduate students in the School of Criminal Justice.
Administrative and quantitative techniques for security operations. Statistical analyses, operations research, and computer techniques.
QP: C J 385 QA: C J 386

887. Quantitative Methods in Criminal Justice Research
Spring, 3(3-0)
P: CJ 381. R: Open only to graduate students in the School of Criminal Justice.
Descriptive and inferential statistics and computer use in criminal justice research.
QP: C J 381 QA: C J 382

890. Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to graduate students in the School of Criminal Justice. Approval of school.
Individual research and writing under faculty supervision.
QP: C J 890

894. Practicum
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to graduate students in the School of Criminal Justice. Approval of school.
Observation, study, and work in selected criminal justice agencies. Participation in domestic and foreign criminal justice systems.
QP: C J 890

896. Policy Analysis under Conditions of Change
Spring, 3(3-0)
P: CJ 811. R: Open only to graduate students in the School of Criminal Justice.
Methods of policy analysis in criminal justice settings. Policy analysis for the formulation, adoption, and implementation of changes.
QP: C J 811 QA: C J 896

899. Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to graduate students in Criminal Justice. Planned research and writing directed by student's thesis committee.
QP: C J 899
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
QA: C J 900

902. Seminar in Criminal Justice Systems Spring of odd-numbered years, 3(3-0)
R: Open only to undergraduate students in Criminal Justice or in Social Science-Criminal Justice.
Contemporary issues in the criminal justice system.
QA: C J 930

903. Research Utilization in Criminal Justice Spring of even-numbered 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.
QA: C J 982

CROP AND SOIL SCIENCES

Department of Crop and Soil Sciences

College of Agriculture and Natural Resources

101. Introduction to Crop Science Fall, 3(2-2)
QA: CSS 101

110. Computer Applications in Agronomy Fall, 2(1-2)
R: Open only to College of Agriculture and Natural Resources students. Not open to students with credit in CPS 100.
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.

201. Forage Crops Fall, 3(2-2)
QA: CSS 301

210. Fundamentals of Soil and Landscape Science Fall, 2(2-3)
Interdepartmental with Forestry.
P: OCM 141
QA: CSS 210

232. Introduction to Turfgrass Management Fall, 2(2-2)
P: CSS 110; CSS 210 or concurrently.
Turfgrass utilization, identification, establishment and management principles. Responses to various cultural practices.
QA: CSS 210 QA: CSS 318

262. Turfgrass Management Seminar Fall, 1(2-0)
P: CSS 232 or concurrently.
Preparation by individuals involved in turfgrass and golf course management. Topics include golf course construction and operations, preparation for tournaments, and public relations.
QA: CSS 315 QA: CSS 417

310. Soil Management and Environmental Impact Spring, 3(2-2)
Management of soil physical 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.
QA: CSS 210 QA: CSS 390

332. Advanced Turf Management Spring, 3(3-0)
P: CSS 232.
Effect of light, heat, cold, drought, and traffic on turfgrass growth and development. Impact of practices such as mowing, cultivation, and compost on the growth of grasses.
QA: CSS 315 QA: CSS 416

342. Turfgrass Soil Management Fall, 3(0-3)
QA: CSS 315 QA: CSS 414

350. Introduction to Plant Genetics Spring, 3(4-0)
P: BOT 105 or BS 111. R: Not open to freshmen and sophomores.
Fundamentals of plant genetics with applications to agriculture and natural resources.
Temporary approval effective from Spring Semester 1993 through Spring Semester 1995.
QA: BOT 205, BS 211 QA: CSS 350

362. Management of Turfgrass Pests Fall, 4(3-2) Interdepartmental with Botany and Plant Pathology, and Entomology.
P: CSS 292.
Chemical, biological, and cultural methods of managing weeds, diseases, and insect pests of turfgrasses. Environmental considerations in pest management.
QA: CSS 318 QA: CSS 419

370. Agricultural Cropping Systems Management Fall, 3(3)
P: CSS 101 or CSS 210, MTH 110 or MTH 116. R: Not open to freshmen and sophomores.
Interdisciplinary decision making to select crop and production systems based upon soil productivity, climatic adaptation, environmental impacts, and economic constraints.
QA: CSS 101 or CSS 210, MTH 108

380. Crop Physiology Spring of odd-numbered years. 3(3-2) P: CSS 101; BOT 105 or BOT 301. R: Not open to freshmen and sophomores.
Physiological and metabolic function of plants from a whole plant viewpoint. Environmental effects on crop growth, development, and yield.
QA: CSS 101, BOT 301 QA: CSS 380

402. Principles of Weed Science Fall, 3(2-2)
P: BOT 105, OCM 143. R: Not open to freshmen and sophomores.
Weed biology and ecology. Cultural, mechanical, biological, and chemical control practices. Herbicide action, selectivity in plants, and effects on environment.
QA: OCM 145, BOT 301 QA: CSS 402

406. Seed Production and Technology Fall of even-numbered years. 3(2-2)
P: CSS 101, CSS 350. R: Not open to freshmen and sophomores.
Practical principles of field seed production. Crop improvement, variety release, seed production, seed technology and evaluation involved in producing high quality field crop seed.
QA: CSS 101, CSS 350 QA: CSS 406, CSS 485

410. Soil Fertility and Chemistry Fall, 3(3-0)
P: CSS 210. R: Not open to freshmen and sophomores.
Application of chemistry to diagnosing and improving soil fertility. Soil amendments including macro- and micro-nutrients. Reduced environmental degradation.
QA: CSS 210 QA: CSS 430

411. Soil Biophysics Fall of even-numbered years, 3(2-2)
P: CSS 210 R: Not open to freshmen and sophomores.
Plant growth and soil physical conditions which influence productivity. Principles and applications of soil texture, structure, mechanical impedance, aeration and water. Root responses to the environment.
QA: CSS 210 QA: CSS 440

414. Plant Breeding and Biotechnology Spring, 4(2-2) Interdepartmental with Horticulture and Forestry.
P: CSS 350. Not open to students with credit in MTH 108.
Plant improvement by genetic manipulation. Genetic variability in plants. Traditional and biotechnological means of creating and disseminating recombinant genotypes and cultivars.
QA: CSS 350 QA: CSS 408

P: CSS 350 or ZOL 341. R: Not open to freshmen and sophomores.
Principles, concepts, and techniques of agricultural plant biotechnology. Recombinant DNA technology, plant molecular biology, transformation, tissue culture, and organ culture in relation to plant improvement.
QA: CSS 350 or ZOL 441 QA: CSS 451, HRT 838

453. Pollutants in the Soil Environment Fall, 3(3-0)
P: OCM 143. R: Open only to seniors and graduate students.
Evaluation of the properties, genesis, and classification of soil resources to assist in making land-use decisions. Field trips required.
QA: CSS 210 QA: CSS 470

490. Independent Study Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
P: CSS 101 or CSS 140. R: Approval of department; application required.
Individual work on field, laboratory, or library research problem of special interest to the student.
QA: CSS 101 or CSS 210 QA: CSS 411

491. Special Topics Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
P: CSS 101 or CSS 210. Not open to freshmen and sophomores.
Topics from crop production, crop physiology, turfgrass management, organic soils, turfgrass soils, soil fertility, plant and soil relationships, genetics, biotechnology, environmental science, or sustainable agriculture.
QA: CSS 101 or CSS 210 QA: CSS 412

492. Seminar Fall, 1(1-0)
P: CSS 210; CSS 342 or CSS 370.
Synthesis, integration and application of agronomic principles to current issues in agronomy via discussion and oral and written communication.
QA: CSS 210, CSS 370 or CSS 342 QA: CSS 420

801. Physiological Crop Ecology Fall of even-numbered years, 2(2-0)
Environmental factors that limit crop distribution and productivity. Physiological basis for stress injury, resistance to temperature extremes, flooding, drought, and salinity.
QA: CSS 801

Crop and Soil Sciences—Descriptions of Courses