FIVS - FORENSIC & INVESTIGATIVE SCIENCES (FIVS)

FIVS 101 Introduction to Academic Success in Forensic and Investigative Sciences
Credit 1. 1 Lecture Hour.
Orientation to academic success within higher education and specifically the Bachelor of Science degree in forensic and investigative sciences; awareness of academic and campus support services available for student success; development of goals for academic and career planning, including creation and utilization of degree planner; awareness of personal self-management strategies, including learning styles, time management, goal setting, stress management and development of personal strategies for implementation of personal self-management into practice.

FIVS 102 Continuing Academic Success in Forensic and Investigative Sciences
Credits 0. 0 Lecture Hours. 0 Lab Hours. 0 Other Hours.
Continued exploration to academic success within higher education and specifically the Bachelor of Science degree in Forensic and Investigative Sciences; increase awareness of academic and campus support services available for student success; develop goals for academic and career planning, including creation and utilization of degree planner; awareness of personal self-management strategies, including learning styles, time management, goal setting, stress management, and development of personal strategies for implementation of personal self-management into practice. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: Grade of C or better in FIVS 101.

FIVS 123 Forensic Investigations
Credits 3. 3 Lecture Hours.
Overview of forensics from incident scene to court room verdict; principles, concepts, tools and methodologies used in the science and practice of forensics; examination of various forensic fields; evidence recognition, analysis, interpretation and presentation to diverse audiences.

FIVS 205 Introduction to Forensic and Investigative Sciences
Credits 3. 3 Lecture Hours.
Overview of principles, procedures, and concepts of forensic and investigative sciences; instruction in the definitions, scope, and use of tools, techniques and protocols in forensic applications used to resolve social, regulatory, and legal disputes.
Prerequisite: Freshman or sophomore classification or approval of instructor.

FIVS 285 Directed Studies
Credits 0 to 4. 0 to 4 Other Hours.
Directed individual study in forensic and investigative sciences. May be repeated for credit.
Prerequisites: Freshman or sophomore classification; approval of instructor and department head.

FIVS 289 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of forensic and investigative sciences. May be repeated for credit.

FIVS 291 Research
Credits 0 to 4. 0 to 12 Lab Hours.
Research conducted under the direction of a faculty member in the department of entomology. May be repeated 3 times for credit.
Prerequisite: Freshman or sophomore classification.

FIVS 308 Forensic Implications of Inheritance
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Forensic genetics with an emphasis on human molecular genetics, population genetics, and genetic application in the forensic sciences.
Prerequisites: Grade of C or better in BIOL 112; upper division in forensic and investigative sciences; junior or senior classification.

FIVS 316 Biotechnology and Forensics
Credits 4. 3 Lecture Hours. 3 Lab Hours.
Illustration of the use of a variety of biotechnology methods for forensic applications; appreciation and understanding of the underlying molecular biology techniques that are used in a diverse array of settings including blood analysis, blood typing, DNA fingerprinting and genetic testing; potential future use of advanced sequencing technologies for forensic applications; consideration of social, ethical and legal implications of these procedures and applications.
Prerequisites: Grade of C or better in FIVS 308.

FIVS 401/SCSC 401 Forensic Soil Science
Credits 3. 2 Lecture Hours. 2 Lab Hours.
Examination of soils biology, chemistry and physical attributes to solve crimes; soil and geologic characteristics associated with crime scene examination; physical, biological and chemical characteristics and use of trace evidence.
Prerequisite: Grade of C or better in FIVS 482.
Cross Listing: SCSC 401/FIVS 401.

FIVS 415 Practice and Principles of Science and Law
Credits 3. 3 Lecture Hours.
Introduction to series of practitioners of forensic science and the justice system; receive instruction on principles, procedures, and practices used in solving legal and societal issues; examine scientific method and scientific knowledge as applied through expert testimony; enhance critical thinking and reasoning skills in studying and debating different positions of current issues of science and law.
Prerequisites: Grade of C or better in FIVS 205 and FIVS 481; grade of C or better in FIVS 431/ENTO 431, FIVS 432/ENTO 432, and FIVS 435, or concurrent enrollment.

FIVS 421 Latent Print Processing
Credits 2. 1 Lecture Hour. 3 Lab Hours.
Information, techniques, and methodologies for processing latent fingerprints and enhancing visible fingerprints at and from crime scenes, as well as from physical evidence.
Prerequisites: Grade of C or better in FIVS 205 and FIVS 422; upper division forensic and investigative sciences academic standing; approval of instructor.

FIVS 422 Crime Scene Investigation
Credits 2. 1 Lecture Hour. 3 Lab Hours.
Principles, procedures, processes and hands-on experience for conducting investigations ranging from general crime scene to death investigations.
Prerequisites: Grade of C or better in FIVS 205 and FIVS 482, upper division forensic and investigative sciences academic standing.
FIVS 431/ENTO 431 The Science of Forensic Entomology
Credits 3. 3 Lecture Hours.
Explores the science, methodology and technology employed to gather, preserve and present information about insects and other arthropods in such a manner that this information can be used in courts of law as evidence and testimony to help resolve issues of a criminal or civil nature.
**Prerequisites:** Junior or senior classification or approval of instructor.
**Cross Listing:** ENTO 431/FIVS 431.

FIVS 432/ENTO 432 Applied Forensic Entomology
Credit 1. 3 Lab Hours.
Laboratory-based offering practical experience using scientific information, methodology, technology, and legal procedures inherent to the field of forensic entomology; emphasis on collecting, preserving, and identifying information as evidence and expert witness testimony in courts of law.
**Prerequisites:** Junior or senior classification or approval of instructor.
**Cross Listing:** ENTO 432/FIVS 432.

FIVS 435 Case Studies in Problem Solving
Credits 3. 3 Lecture Hours.
Development of reasoning strategies by examining a variety of case studies; science and scientific method solving real-world problems as part of an investigative team.
**Prerequisites:** Grade of C or better in FIVS 316 and FIVS 481; grade of C or better in FIVS 415 or concurrent enrollment; senior classification or approval of instructor.

FIVS 481 Seminar
Credit 1. 1 Other Hour.
Analysis of research topics related to the fields of forensic science and law. May be taken 4 times for credit.
**Prerequisite:** Grade of C or better in FIVS 482.

FIVS 482 Occupational and Professional Development
Credits 2. 2 Lecture Hours.
Organized instruction in written and oral communication; acquaint students with private and public-sector companies and agencies as well as leading professionals from these firms to reinforce academic instruction and prepare students for the transition to employment, graduate and professional schools.
**Prerequisite:** Entry to upper division of FIVS program; junior or senior classification or approval of instructor.

FIVS 484 Professional Internship
Credits 0 to 4. 0 to 4 Other Hours.
Independent study and supervised field experience related to a professional area or interest in forensic science. May be taken 3 times for credit.
**Prerequisite:** Junior or senior classification and approval of instructor.

FIVS 485 Directed Studies
Credits 0 to 4. 0 to 4 Other Hours.
Directed individual study in forensic and investigative sciences. May be repeated for credit.
**Prerequisites:** Junior or senior classification; upper-division FIVS only; approval of instructor and department head.

FIVS 489 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified area of forensic and investigative sciences. May be repeated for credit.

FIVS 491 Research
Credits 0 to 4. 0 to 12 Lab Hours.
Research conducted under the direction of a faculty member in the department of entomology. May be repeated 3 times for credit.
**Prerequisite:** Junior or senior classification and approval of instructor.