Chemistry

CHEM 104 4 Credits
SURVEY OF CHEMISTRY (HEALTH)
Quarters: Summer, Fall, Winter, Spring
Studies the fundamental concepts of chemistry including metric system, atomic structure, chemical reactions and gas laws, buffers, solution chemistry and acids and bases. Examines the relationship of chemical principles to current environmental and health related topics. Lab required. Prerequisites: MATH 60, or suitable placement score.

CHEM 105 4 Credits
SURVEY OF CHEMISTRY (HEALTH)
Quarters: Winter, Spring
Studies the fundamental concepts of chemistry, including nuclear radiation, energy, and organic chemistry. Lab required. Prerequisites: CHEM 104.

CHEM 106 4 Credits
SURVEY OF CHEMISTRY (HEALTH)
Quarters: Spring
Studies the fundamental concepts of chemistry, including carbohydrates, lipid and protein metabolism, RNA and DNA synthesis, action of enzymes, hormones and steroids, and overall integration of metabolism. Lab required. Prerequisites: CHEM 105.

CHEM 121 4 Credits
GENERAL CHEMISTRY
Quarters: Fall
Provides an introduction to the fundamentals of inorganic chemistry, including metric system, atomic structure, chemical reactions and gas laws, buffers, solution chemistry, and acids and bases. Lab required. Prerequisites: MATH 65 or suitable placement score.

CHEM 122 4 Credits
GENERAL CHEMISTRY
Quarters: Winter
Covers the radiation and environmental issues. Introduces organic nomenclature, functional groups and reactions. Prerequisites: CHEM 121 or 104.

CHEM 123 4 Credits
GENERAL CHEMISTRY
Quarters: Spring
Covers the basics of organic and biochemistry. Lab required. Prerequisites: CHEM 122

CHEM 221 5 Credits
COLLEGE CHEMISTRY
Quarters: Fall
Studies measurement, chemical reactions, stoichiometry, thermo chemistry, atomic structure, chemical bonding and gas laws. Lab required. Prerequisites: MATH 95 or suitable placement score. Previous chemistry experience strongly recommended.

CHEM 222 5 Credits
COLLEGE CHEMISTRY
Quarters: Winter
Includes molecular bonding, solution chemistry, chemical reactions, oxidation reduction, chemical equilibrium and acid base equilibrium. Lab required. Prerequisites: CHEM 221.

CHEM 223 5 Credits
COLLEGE CHEMISTRY
Quarters: Spring
Includes thermodynamics, electrochemistry, nuclear chemistry, metals, nonmetals and transition elements and brief survey of organic and biochemistry. Lab required. Prerequisites: CHEM 222.

CHEM 227 5 Credits
ORGANIC CHEMISTRY
Quarters: Fall
Presents alkanes, alkenes, stereochemistry, role of solvents and organic reactions. Lab required. Prerequisites: CHEM 223.

CHEM 228 5 Credits
ORGANIC CHEMISTRY
Quarters: Winter
Examines alkenes, aromaticity, aromatic substitution, spectroscopy, NMR, CMR, IR, aldehydes and ketones and carboxylic acids. Lab required. Prerequisites: CHEM 227.

CHEM 229 5 Credits
ORGANIC CHEMISTRY
Quarters: Spring
Includes amines, phenols, molecular orbital theory, carbohydrates, lipids, proteins and nucleic acids. Lab required. Prerequisites: CHEM 228
### Computer Information Systems

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Quarters</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 133 CP</td>
<td>C++ PROGRAMMING</td>
<td>4</td>
<td>Offered as needed</td>
<td>CIS 140</td>
</tr>
<tr>
<td>CIS 133 JA</td>
<td>INTRO TO JAVA PROGRAMMING</td>
<td>4</td>
<td>Offered as needed</td>
<td>CIS 140</td>
</tr>
<tr>
<td>CIS 133 VB</td>
<td>INTRO TO VISUAL BASIC.NET</td>
<td>4</td>
<td>Offered as needed</td>
<td>CS 140</td>
</tr>
<tr>
<td>CIS 240 U</td>
<td>UNIX LINUX SERVER OPERATIONS</td>
<td>4</td>
<td>Offered as needed</td>
<td>CIS 240</td>
</tr>
<tr>
<td>CIS 110</td>
<td>INFORMATION TECHNOLOGY ESSENTIALS I</td>
<td>3</td>
<td>Fall, Spring</td>
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<tr>
<td>CIS 111</td>
<td>INFORMATION TECHNOLOGY ESSENTIALS 2</td>
<td>3</td>
<td>Winter, Spring</td>
<td>CIS 110</td>
</tr>
<tr>
<td>CIS 120</td>
<td>INTRO TO COMPUTER INFO SYSTEMS</td>
<td>4</td>
<td>Offered as needed</td>
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<tr>
<td>CIS 225</td>
<td>END USER SUPPORT</td>
<td>4</td>
<td>Spring</td>
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<tr>
<td>CIS 244</td>
<td>PROJECT MANAGEMENT-ANALYSIS AND DESIG</td>
<td>4</td>
<td>Spring</td>
<td>CS 101</td>
</tr>
<tr>
<td>CIS 280</td>
<td>COMPUTER INFO SYSTEM COOP WK EXP</td>
<td>3</td>
<td>Offered as needed</td>
<td>CIS 120</td>
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</tbody>
</table>
# Computer Science

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Quarters</th>
<th>Description</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>CIS 284</td>
<td>NETWORK SECURITY</td>
<td>4</td>
<td>Spring</td>
<td>Introduction to proven techniques for protecting information systems from intruders, while allowing the required access to authorized users. Prerequisites: CIS 240.</td>
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</tr>
<tr>
<td>CS 125 A</td>
<td>DATABASE APPLICATIONS</td>
<td>4</td>
<td>Fall, Winter, Spring</td>
<td>Introduces microcomputer database systems, including their application, design, and construction. Begins with basic tables, forms, queries, reports, and relational database concepts, and progresses to more advanced concepts and skills, including creating operating modules, macros and advanced forms and reports. Prerequisites: BA 131, or CS 101, CS 160, or instructor approval.</td>
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</tr>
<tr>
<td>CS 125 SS</td>
<td>SPREADSHEET APPLICATIONS</td>
<td>4</td>
<td>Summer, Fall, Winter, Spring</td>
<td>Presents the features in Microsoft Excel needed to efficiently produce spreadsheets and supporting documents. Provides the skills necessary for MOS certification. Prepares students to create, edit, and format spreadsheets, create formulas, use certain functions, create charts, do business related analysis, work with data lists, create and edit macros, create pivot tables and charts, and display worksheets on the web. Prerequisites: BA 131, or CS 101, CS 160, or instructor approval.</td>
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</tr>
<tr>
<td>CS 133 CP</td>
<td>COMPUTER PROGRAMMING: C++</td>
<td>4</td>
<td>Offered as needed</td>
<td>Introduces computer programming using the C++ languages, including the structure of the language; manipulation of data, arrays and objects; and how to handle input and output functions. Uses well structured program designs and object oriented programming. Prerequisites: BA 131, or CS 120 or 160, or instructor approval.</td>
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</tr>
<tr>
<td>CS 133 JA</td>
<td>INTRO TO JAVA PROGRAMMING</td>
<td>4</td>
<td>Offered as needed</td>
<td>Introduces Java language and concepts of object oriented programming. Prerequisites: BA 131, or CS 120 or 160, or instructor approval.</td>
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</tr>
<tr>
<td>CS 133 VB</td>
<td>INTRO TO VISUAL BASIC PROGRAMMING</td>
<td>4</td>
<td>Offered as needed</td>
<td>Explores software design and development in an event-driven windowing user-interface environment using Visual Basic. Includes BASIC syntax, data structures, user interface, modular design techniques, file handling. Prerequisites: BA 131, or CS 120 or 160, or instructor approval.</td>
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<tr>
<td>CS 140 L</td>
<td>OP. ENVIRONMENTS: LINUX</td>
<td>4</td>
<td>Offered as needed</td>
<td>Introduces installing and using the Linux operating system on PC-compatible computers. Covers installing Linux on a dedicated computer, in a Unix partition of a non-dedicated computer, and a MS-DOS partition of a non-dedicated computer. Includes basic Linux/Unix console commands, X-Windows, and some Linux/Unix application programs. Prerequisites: BA 131, or CS 101, or instructor approval.</td>
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</tr>
<tr>
<td>CS 140 W</td>
<td>INTRO TO MICROSOFT OPERATING SYSTEM</td>
<td>4</td>
<td>Fall</td>
<td>Survey of features available with Microsoft's latest desktop operating systems.</td>
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</tr>
<tr>
<td>CS 233 CP</td>
<td>ADV COMPUTER PROGRAMMING: C++</td>
<td>4</td>
<td>Offered as needed</td>
<td>Explores advanced computer programming using the C++ language, including functions, operator overload, arrays, inheritance, polymorphism, derived classes, special classes and functions, and exceptions and error handling. Prerequisites: CS 133 CP.</td>
<td></td>
</tr>
<tr>
<td>CS 240 L</td>
<td>ADV OP: LINUX SYSTEM ADMINISTRATOR</td>
<td>4</td>
<td>Offered as needed</td>
<td>Introduces Linux System administration, including how to install, expand, configure, manage, and network Linux systems. Prerequisites: CS 140L, or equivalent.</td>
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</tr>
<tr>
<td>CS 260 B</td>
<td>DATA STRUCTURES II</td>
<td>3</td>
<td>Offered as needed</td>
<td>Continues the analysis of algorithms is used in many computer applications written in high level programming language, including algorithms for sorting, searching, graphs, dynamic programming, and more. Prerequisites: CS 260.</td>
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<tr>
<td>Course Code</td>
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<td>Credits</td>
<td>Description</td>
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</tbody>
</table>
| CS 295 A   | (P/T) | 3       | WEB DESIGN II  
Quarter: Offered as needed  
Presents the techniques and methods that lead the developer from the conception through the design, development, installation and support of a business Web site. Provides application of these techniques and methods through hands-on lab experiences using appropriate software. Prerequisites: CS 195. |
| CS 295 B   | (P/T) | 3       | WEB DYNAMICS  
Quarter: Offered as needed  
Presents the fundamentals of creating dynamic interactive web pages. Provides hands-on experience creating dynamic text and images, positioning and data binding. Uses scripting to enhance the functionality of Web pages. Prerequisites: CS 295A |
| CS 101     |      | 4       | COMPUTER FUNDAMENTALS I  
Quarter: Fall, Winter, Spring  
Introduction to computer concepts to include the following areas: computer fundamentals, key applications, and living online. Basic introduction to computer hardware, computer software, and manipulating an operating system. An elementary summary of common program functions and office suites. A straightforward overview of networks, the internet, email, and social impact of networking technologies. |
| CS 151     | (P/T) | 4       | COMPUTER NETWORKING 1  
Quarter: Offered as needed  
| CS 152     | (P/T) | 4       | COMPUTER NETWORKING 2  
Quarter: Offered as needed  
Small to Medium Businesses or ISPs. Design, configure, implement, and troubleshoot network infrastructure. Prerequisites: CS 151 or instructor approval |
| CS 153     | (P/T) | 4       | COMPUTER NETWORKING 3  
Quarter: Offered as needed  
Routing and Switching in the Enterprise provide an introduction to advanced routing and switching in an enterprise network. Configure and implement a local area network. Perform LAN, WAN and VLAN design and trouble shooting. Familiarize students with the equipment applications and protocols installed in an enterprise network with a focus on switched networks, IP Telephony requirements and security. Prerequisites: CS 152, or instructor approval |
| CS 154     | (P/T) | 4       | COMPUTER NETWORKING 4  
Quarter: Offered as needed  
Designing and supporting computer networks, analyze client needs to design and support effective computer networks. Prerequisites: CIS 103, or instructor approval |
| CS 160     |      | 4       | ORIENTATION TO PROGRAMMING  
Quarter: Fall, Winter  
Explores the field of computer science, providing an overview of machine architecture, software development and engineering, data organization, problem-solving strategies, ethics, and theory of computation. Explores career options and develops rudimentary software development skills using (OOP) Object Oriented. Prerequisites: MATH 80 or suitable placement score. |
| CS 161     |      | 4       | COMPUTER SCIENCE I  
Quarter: Winter  
Introduces structured methods, including program design concepts, algorithm development, use of pseudo code in designing algorithms, elementary data types, and write code using an (OOP) Object Oriented Programming language. Some sections may have a no-cost text book option. Prerequisites: CS 160. |
| CS 162     |      | 4       | COMPUTER SCIENCE II  
Quarter: Offered as needed  
Continues the study of computer science, including linear data structures, file access, recursion, and object oriented programming. Prerequisites: CS 161. |
| CS 195     |      | 3       | WEB DESIGN  
Quarter: Fall, Winter, Spring  
Presents the fundamental concepts and techniques used for the design, development, and implementation of web pages using (HTML) Hyper Text Markup Language and (CSS) Cascading Style Sheets. |
CS 196  (P/T)  3 Credits
WEB AUTHORING II
Quarters: Offered as needed
This course will work with intermediate concepts in CSS to frame webpage layout and enhancement with multimedia. Students will also explore an introduction to JavaScript application and use on mobile-enabled webpages.

CS 197  3 Credits
WEB AUTHORING III
Quarters: Offered as needed
In this course, students will learn how to use, edit, and extend a Content Management System (CMS) for the development of a webpage. Best practices in Search Engine Management, Secure Sockets Layer (SSL) and web publishing will also be explored. Elements from CS 195 and CS 196 (HTML, CSS and JavaScript) will continually be used in this course. Prerequisites: CS 196

CS 240  (P/T)  4 Credits
SERVER OPERATING SYSTEMS 1
Quarters: Offered as needed
Microsoft Windows Server 2008 Active Directory Configuration prepares students to develop the skills needed to manage a Windows Server 2008 system and to prepare to pass the MCTS 70-640 certification exam. While the focus of topics is on the configuration of Active Directory and related services, coverage of Windows foundational topics such as the file system and networking are also included. Extensive coverage begins with an introduction to Windows Server 2008 and goes on to active directory design, account management, group policy management and configuration, certificate services, AD LOS, AD RMS, AD FS, server core, Windows Hyper-V virtualization, and server management.

CS 241  (P/T)  4 Credits
SERVER OPERATING SYSTEMS 2
Quarters: Offered as needed
Prepares students to configure networks using the Microsoft Windows Server platform operating system and to sit for Windows Server Certification exams. Focusing on updates to the software and in-depth coverage of the network aspects of Windows Server, this course includes topics such as networking in a Windows environment; configuring DHCP; implementing DNS; and securing a Windows server.

CS 242  (P/T)  4 Credits
SERVER OPERATING SYSTEMS 3
Quarters: Offered as needed
Microsoft Windows Server 2008, Server Administration (Exam 70-646) prepares students to administer networks using the Microsoft Windows Server 2008 operating system and to pass the MCTS 70-646 certification exam. Focusing on updates to the software and in-depth coverage of the administration aspects of Windows Server 2008, this course includes topics such as installing, configuring, managing and troubleshooting. In addition, the book includes fundamental coverage of topics from other MCTS certifications.

CS 244  (P/T)  4 Credits
SYSTEM ANALYSIS AND DESIGN
Quarters: Offered as needed
This course covers topics of system analysis. The task of an analyst is to develop a precise set of specifications describing the group of procedures in a complete information system. Prerequisites: BA 131, or CS 101, or instructor approval.

CS 248  3 Credits
UNIX PROGRAMMING
Quarters: Offered as needed
Covers the essentials of Unix tool programming with the use of high-level programming languages, utilities, and tool kits, including Unix shells and essential utilities and network security issues, and high-level networking and protocol basics. Provides students with an opportunity to team the tools and programming languages that will help them make the best use of Unix. Prerequisites: CS 101 and CS 162

CS 253  (P/T)  3 Credits
WEB SERVER
Quarters: Offered as needed
The purpose of this course is to give Windows NT administrators and webmasters a sound knowledge base for administering and managing Microsoft Internet Information Server 4.0. The text is also a great reference tool for experienced administrators, and is also an excellent resource for those students preparing to take Microsoft Exam 701-087, ITS 4.0 . Prerequisites: CS 101 and CIS 295B

CS 260  4 Credits
DATA STRUCTURES I
Quarters: Offered as needed
Modify and or create common data structures. Data abstraction from several aspects. Explores stacks, queues, lists, vectors, hash tables, graphs, trees and algorithms including sorting, searching, iterating over data structures and recursion. Prerequisites: CS 101

CS 275  4 Credits
INTRODUCTION TO DATABASES
Quarters: Spring
Design and implementation of relational databases, including data modeling with ER or UML diagrams, relational schema, SQL queries, relational algebra, user interfaces, and administration.
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<tbody>
<tr>
<td>CS 280</td>
<td>1</td>
<td>COMPUTER SCIENCE COOP WK EXP</td>
<td>Summer, Fall, Winter, Spring</td>
<td>Designed to give students an opportunity to acquire actual work experience in their chosen field. An on-site supervisor will supervise and evaluate the work experience student. Instructor approval of work setting and placement is required. For each credit earned, the student will need to document 36 hours at the work site. Some sections may have a no-cost text book option.</td>
</tr>
<tr>
<td>CS 281</td>
<td>4</td>
<td>INTRO TO ROBOTS</td>
<td>Offered as needed</td>
<td>Introduces the field of robotics and explores the problems of programming robots. Prerequisites: BA 131, or CS 120 or 160, or instructor approval.</td>
</tr>
<tr>
<td>CJ 100</td>
<td>3</td>
<td>INTRO TO CRIMINAL JUSTICE</td>
<td>Fall, Spring</td>
<td>Introduces the philosophy, history, objectives and functions of the American criminal justice system. Focuses on crime in America and policing.</td>
</tr>
<tr>
<td>CJ 111</td>
<td>3</td>
<td>CONCEPTS OF ENFORCEMENT SERVICES</td>
<td>Offered as needed</td>
<td>Studies the concepts, theories, and principles of police operation and behavior in an era of changing community attitudes, special interest groups, and minority relations.</td>
</tr>
<tr>
<td>CJ 112</td>
<td>3</td>
<td>PATROL PROCEDURES</td>
<td>Summer, Winter</td>
<td>Describes the nature and purpose of patrol activities for law enforcement officers. Includes routine and emergency procedures and types of controls.</td>
</tr>
<tr>
<td>CJ 113</td>
<td>3</td>
<td>ACCIDENT INVESTIGATION/TRAFFIC LAWS</td>
<td>Spring</td>
<td>Studies the principles and procedures used to investigate and report traffic accidents. Includes basic traffic laws.</td>
</tr>
<tr>
<td>CJ 120</td>
<td>3</td>
<td>INTRO TO JUDICIAL PROCESS</td>
<td>Fall</td>
<td>Studies the basic processes in the criminal justice system, covering the steps in a criminal prosecution from the decision to prosecute through sentencing.</td>
</tr>
<tr>
<td>CJ 130</td>
<td>3</td>
<td>INTRO TO CORRECTIONS</td>
<td>Summer, Fall, Winter, Spring</td>
<td>Surveys the history and evolution of corrections, law and legal processes, and the correctional process.</td>
</tr>
<tr>
<td>CJ 132</td>
<td>3</td>
<td>INTRO TO PAROLE AND PROBATION</td>
<td>Fall</td>
<td>Introduces the use of parole and probation as a means of controlling criminal offenders within the community. Includes the philosophy, historical development and contemporary functioning of parole and probation agencies and officers.</td>
</tr>
<tr>
<td>CJ 140</td>
<td>3</td>
<td>U.S. CRIMINAL JUSTICE SYSTEM</td>
<td>Winter</td>
<td>Emphasizes the adjunction and correctional aspects of the criminal justice system. Prerequisites: CJ 100.</td>
</tr>
<tr>
<td>CJ 200</td>
<td>3</td>
<td>COMMUNITY RELATIONS</td>
<td>Summer, Winter</td>
<td>Examines how the relationship between the community and the criminal justice system is clarified and enhanced. Investigates how community misunderstandings, lack of cooperation, and mistrust may paradoxically be generated by the system's efforts to make the community a safer place.</td>
</tr>
<tr>
<td>CJ 201</td>
<td>3</td>
<td>INTRO TO JUVENILE JUSTICE SYSTEM</td>
<td>Winter</td>
<td>Presents the concept of delinquency, the history and development of the juvenile justice system, theories of delinquency, environmental influences on delinquency, and controlling juvenile offenders.</td>
</tr>
</tbody>
</table>
CJ 202 (P/T) 3 Credits
VIOLENCE AND AGRESSION
Quarters: Winter
Explores the causes and extent of violence in society and the family, and examines preventative measures available to reduce violence in society.

CJ 203 (P/T) 3 Credits
CRISIS INTERVENTION
Quarters: Spring
Presents techniques and approaches to crisis intervention for entry level criminal justice professionals. Covers initial intervention, defusing and assessment, resolution and/or referral, with emphasis on safety. Includes personal effectiveness, recognition of threat levels, voluntary compliance, verbal and non-verbal communication, active listening, and mediation.

CJ 205 (P/T) 3 Credits
VICTIMS OF CRIME
Quarters: Spring
Examines the role of victims of crime in the justice system and their treatment by different criminal justice agencies, national and state data on victimization by types of crime, psychology trauma suffered by victims of violent crimes and paths to recovery, programs available to victims, and victim-related legislation.

CJ 207 (P/T) 3 Credits
CRIMINAL JUSTICE DOCUMENTATION
Quarters: Offered as needed
This course is designed to provide the necessary information to become a knowledgeable and skillful writer of narrative reports which document original crimes and follow-up investigations for students entering the Criminal Justice field. The class will focus on the skills needed to write a report that is complete, clear, accurate, and convincing. The actual writing of reports will be a major component of the course. Specialized formats which meet the needs of various types of investigative activities including crime scene processing, interviews with suspects and witnesses, undercover operations, and the execution of search warrants will be explored. Basic writing skills such as grammar and spelling accuracy related to Criminal Justice terminology will be emphasized. Prerequisites: CJ 100, WR 115 or higher, or professional in the field, or consent of instructor. All prerequisite courses must be completed with a grade of "C" or better.

CJ 208 (P/T) 3 Credits
ETHICS IN CRIMINAL JUSTICE
Quarters: Spring
This course examines the many difficult decisions that criminal justice professionals make in an environment of competing interests. The decision-making of criminal justice professionals is often impacted by their ethical dilemmas. Emphasis is placed on addressing moral issues and concerns of our justice process in personal, social, and criminal justice contexts.

CJ 209 3 Credits
INTRO TO CAREERS IN CRIM JUSTICE
Quarters: Fall
Surveys careers in law, law enforcement, courts, and corrections. Includes facility visitation and contact with persons working in the criminal justice system.

CJ 210 (P/T) 3 Credits
CRIMINAL INVESTIGATION I
Quarters: Summer, Winter
Introduces the fundamentals, theory, and history of criminal investigation in the justice system. Describes crime scene-to-courtroom aspects with emphasis on techniques to specific crimes. Co-requisite: CJ 216

CJ 211 (P/T) 3 Credits
CRIMINAL INVESTIGATIONS II
Quarters: Offered as needed
Continues the study and application of investigative techniques for various offenses. Includes collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interview and interrogation, follow up and case preparation. Prerequisites: CJ 210. Co-requisite: CJ 226.

CJ 212 (P/T) 3 Credits
CRIMINAL INVESTIGATIONS III
Quarters: Offered as needed
Continues the study and application of investigative techniques for various crimes. Stresses scientific method, thoroughness and presentation of evidence. Explores follow up case preparation, including familiarization with the state crime lab facilities and its assistance to law enforcement agencies. Prerequisites: CJ 211. Co-requisite: CJ 236.

CJ 216 (P/T) 1 Credit
CRIME SCENE TECHNICIAN I
Quarters: Offered as needed
Presents techniques of locating, collecting, and identifying physical evidence. Includes the use of fingerprinting, casts and molds, photography, and sketching. Uses basic laboratory aids and scientific equipment in the evidence process. Co-requisite CJ 210

CJ 220 3 Credits
CRIMINAL LAW
Quarters: Winter
Examines the basic concepts of criminal law through studying the essential elements of a crime, the defenses to criminal conduct, and the justifications for criminal laws and punishment. Familiarizes the student with the various crimes against persons and property.
CJ 222  
PROCEDURAL LAW  
Quarters: Spring  
Examines the United States Constitution and Bill of Rights and their impact upon law enforcement, with emphasis on search warrants, interviews, arrest and booking, search and seizure issues, 5th Amendment rights, right to counsel, evidentiary issues and the criminal trial.

CJ 223  
RULES OF EVIDENCE  
Quarters: Spring  
Reviews basic concepts of the requirements for admissibility of evidence, the various burdens of proof, how evidence is used at trial, relevance, competency, privileges, opinion and expert testimony, the hearsay rule and its exceptions, and an introductory review of evidence obtained in violation of the Constitution.

CJ 225  
CORRECTIONS LAW  
Quarters: Winter  
Explores several historical and current cases involving inmate crimes and malpractice with inmates. Examines prisoner's rights, correctional staffs' rights, and emerging trends resulting from recent court cases.

CJ 226  
CRIME SCENE TECHNICIAN II  
Quarters: Offered as needed  
Presents techniques of locating, collecting, and identifying physical evidence. Includes the use of fingerprinting, casts and molds, photography and sketching. Uses basic laboratory aids and scientific equipment in the evidence process. Co-requisite: CJ 211.

CJ 232  
CORRECTIONS CASEWORK  
Quarters: Fall, Winter, Spring  
Studies the basic concepts of interviewing and counseling techniques used by correctional officers in one-to-one contacts with clients. Builds rudimentary skills through role-playing and demonstration in preparation for practice in the field and to foster an appreciation for further training. Prerequisites: CJ 132

CJ 236  
CRIME SCENE TECHNICIAN III  
Quarters: Offered as needed  
Presents techniques of locating, collecting and identifying physical evidence. Includes the use of fingerprinting, casts and molds, photography and sketching. Uses basic laboratory aids and scientific equipment in the evidence process. Co-requisite: CJ 212.

CJ 280  
CRIMINAL JUSTICE COOP WK EXP  
Quarters: Summer, Fall, Winter, Spring  
Provides work-related experience and study in selected Criminal Justice environments.

Crop Science

CSS 200  
PRINCIPLES OF CROP SCIENCE  
Quarters: Spring  
Studies the origin and adaptability of crops important in world food production. Emphasizes production and management of food and forage crops important to US Agriculture. Includes field trips to area farms, experiment stations and marketing facilities to augment classroom instruction. Lab required.

CSS 205  
GENERAL SOILS  
Quarters: Fall  
Studies basic soil science, including genesis and morphology of soils, and their physical and chemical properties. Covers soil-water relationships, diagnosis, classification, management, essential nutrients, erosion, and soil as a medium for plant growth. Students use soil survey reports. Lab required.

CSS 210  
FORAGE PRODUCTION  
Quarters: Winter  
Identifies the annual feed requirements for a livestock operation and the selection and management of feed and forage crops to meet these needs. Studies grazing and harvest systems and alternatives, and plant growth characteristics in the development of practical farm and ranch programs. Lab required.

CSS 215  
SOIL NUTRIENTS AND FERTILIZER  
Quarters: Winter  
Addresses the 9 macronutrients and 6 micronutrients essential for plant growth. Instructs students in fertilizer selection as well interpreting soil sample analysis in making fertilizer recommendations. Prerequisites: CSS 205
CSS 217  
(P/T)  
1 Credit  
PESTICIDE SAFETY AND USE  
Quarters: Winter  
Presents federal and state pesticide laws and regulations, and the practices necessary for safe, effective handling and distribution of pesticides. Prepares for the "Laws and Safety Examination" for those wanting either a public or commercial license; and the "Private Applicator Examination" administered by the Oregon/Idaho State Department of Agriculture.

CSS 240  
(P/T)  
3 Credits  
INTRO TO NOXIOUS WEEDS  
Quarters: Spring  
Presents elements needed for a basic understanding of the life cycles, spread, and destructive nature of noxious weeds, including how to distinguish a noxious weed from a weed and identification of the more common noxious weeds found in the Pacific Northwest. This course also serves to address management of noxious weeds through biological controls, chemical applications, and mechanical removal. Lab required.