

#### **Academics**

**Overview** 

Calendar

Regulations

Services

**Programs** 

**Minors** 

Courses

**Faculty** 

#### **Course Index**

A B C D E F G H L J K L M N O P R S T U Y

#### School of Engineering

#### **Civil Engineering**

W

- C E 101: Introduction to Civil Engineering I
- C E 102: Introduction to Civil Engineering II
- C E 205: Civil Engineering Laboratory I
- C E 207: Surveying
- C E 208: Civil Engineering Graphics I
- C E 305: Civil Engineering Laboratory II
- C E 310: Introduction to Structural Mechanics
- C E 311: Structural Analysis
- C E 315: Civil Engineering Materials
- C E 325: Intermediate Dynamics
- C E 371: Intro to Environmental Engineering
- C E 401: Civil Engineering Fundamentals
- C E 405: Civil Engineering Laboratory III

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.





- C E 412: Design of Concrete Structures
- C E 413: Steel Design
- C E 414: Advanced Concrete Design
- C E 417: Construction Engineering and Management
- C E 421: Matrix Analysis of Structures
- C E 431: Soil Mechanics I
- C E 433: Foundation Engineering
- C E 435: Advanced Geotechnical Engineering
- C E 452: Civil Engineering Analysis
- C E 455: Civil Engineering Design I
- C E 456: Civil Engineering Design II
- C E 471: Environmental Engineering I
- C E 472: Water Resources Engineering
- C E 481: Transportation Engineering I
- C E 495: Geospatial Analysis for Engr & Vis Apps
- C E 497: Civil Engineering Projects
- C E 500: Geographic Information Systems Engr Sci
- C E 511: Structural Dynamics
- C E 513: Advanced Steel Design
- C E 514: Pre-Stressed Concrete Design
- C E 516: Bridge Engineering
- C E 521: Advanced Mechanics of Materials
- C E 531: Soil Mechanics II
- C E 536: Designing with Geosynthetics
- C E 541: Flow in Open Channels
- C E 542: Flow in Porous Media
- C E 543: Sediment Transport
- C E 561: Civil Engineering Systems
- C E 570: Infrastructure Management
- C E 572: Stormwater Engineering and Management
- C E 574: Wastewater Engineering
- C E 575: Drinking Water Engineering
- C E 578: Agricultural Conservation for Eng & Sci
- C E 581: Transportation Engineering II
- C E 585: Highway Pavements
- C E 590: Airport Planning and Design

#### School of Engineering

- C OP 201: CO-OP Work Experience
- C OP 202: CO-OP Work Experience
- C OP 300: Cooperative Education
- C OP 301: CO-OP Work Experience
- C OP 302: CO-OP Work Experience
- C OP 401: CO-OP Work Experience
- <u>C OP 402: CO-OP Work Experience</u>
- C OP 501: CO-OP Work Experience
- C OP 502: CO-OP Work Experience
- C OP 503: CO-OP Work Experience

#### **Graduate School**

• C&H Thesis: UM Croft and Honors Thesis

#### School of Pharmacy

**Pharmacy Practice** 

• Card 591: Cardiology Clerkship

# University Programs University Studies

- CEL 101: Community Engaged Leadership 101
- CEL 102: From Service to Solutions





- CEL 201: Beginning Capacity Building
- CEL 202: Knowing Your Issue
- CEL 210: Community Engaged Leadership 210
- CEL 301: Planning and Managing Projects
- CEL 302: Building Organizational Capacity
- CEL 310: Community Engaged Leadership Capstone
- CEL 401: Transitioning from College to Career
- CEL 402: Preparing for Civically Engaged Lives

### School of Engineering Chemical Engineering

- Ch E 101: Introduction to Chemical Engineering
- Ch E 251: Programming for Chemical Engineering
- Ch E 307: Chemical Process Principles I
- Ch E 308: Chemical Process Principles II
- Ch E 316: Chemical Engineering Fluid Mechanics
- Ch E 317: Process Fluid Dynamics and Heat Transfer
- Ch E 318: Chem Engineering Heat and Mass Transfer
- Ch E 330: Chemical Eng. R & D Experience
- Ch E 345: Engineering Economy
- Ch E 407: Chemical Engineering Projects I
- Ch E 408: Chemical Engineering Projects II
- Ch E 411: Chemical Engineering Seminar
- Ch E 412: Process Control and Safety
- Ch E 413: Chemical Process Safety
- Ch E 417: Separation Processes
- Ch E 421: Chemical Engineering Thermodynamics
- Ch E 423: Chemical Reactor Analysis and Design
- Ch E 431: ChE Mass and Energy Balance Lab
- Ch E 432: ChE Unit Operations Lab
- Ch E 433: ChE Design Lab
- Ch E 449: Process Design
- Ch E 450: Process Optimization
- Ch E 451: Plant Design I
- Ch E 452: Product and Process Development
- Ch E 470: Principles of Lean Six Sigma
- Ch E 511: Process Dynamics and Control
- Ch E 513: Special Topics in Chemical Engineering
- Ch E 515: Research Seminar
- Ch E 520: Biochemical Engineering
- Ch E 521: Drug and Gene Delivery
- Ch E 522: Immunoengineering
- Ch E 523: Molecular and Cellular Biophysics
- Ch E 524: Microscopy for Engineers
- Ch E 528: Polymer Processing
- Ch E 535: Experimental Methods in Engineering
- Ch E 540: Coating Materials Process & Applications
- Ch E 543: Introduction to Polymer Science
- Ch E 545: Colloid and Surface Science
- Ch E 547: Sufactant Science and Applications
- Ch E 550: Membrane Science and Engineering
- Ch E 560: Advanced Transport Phenomena I
- Ch E 561: Advanced Transport Phenomena II
- Ch E 593: Graduate Projects in Chemical Engr

### College of Liberal Arts Chemistry & Biochemistry

- Chem 101: Chemical Concepts
- Chem 103: Survey of Chemistry I
- Chem 104: Survey of Chemistry II





- Chem 105: General Chemistry I
- Chem 106: General Chemistry II
- Chem 107: General Chemistry Honors Recitation I
- Chem 108: General Chemistry Honors Recitation II
- Chem 113: Survey of Chemistry Laboratory I
- Chem 114: Survey of Chemistry Laboratory II
- Chem 115: General Chemistry Laboratory I
- Chem 116: General Chemistry Laboratory II
- Chem 121: Fundamentals of Organic Chemistry
- Chem 201: Environmental Chemistry I
- Chem 202: Environmental Chemistry II
- Chem 221: Elementary Organic Chemistry I
- Chem 222: Elementary Organic Chemistry II
- Chem 225: Elementary Organic Chem. Laboratory I
- Chem 226: Elementary Organic Chem. Laboratory II
- Chem 227: Organic Chemistry Honors Recitation I
- Chem 228: Organic Chemistry Honors Recitation II
- Chem 251: Introduction to Individual Research
- Chem 271: Biochemical Concepts
- Chem 293: Introductory Special Topics in Chemistry
- Chem 314: Quantitative Analysis
- Chem 319: Chem & Phys Methods of Forensic Chem
- Chem 331: Physical Chemistry I
- Chem 332: Physical Chemistry II
- Chem 334: Biophysical Chemistry
- Chem 337: Physical Chemistry Laboratory I
- Chem 351: Individual Research
- · Chem 373: Intermediate Biochemistry
- Chem 381: Chemistry for Teachers I
- Chem 382: Chemistry for Teachers II
- Chem 383: Chemistry for Teachers III
- Chem 393: Intermediate Special Topics in Chemistry
- Chem 401: Inorganic Chemistry
- Chem 402: Inorganic Chemistry Laboratory
- Chem 415: Computer Methods in Chemistry
- Chem 421: Recitation in Organic Chemistry I
- Chem 422: Recitation in Organic Chemistry II
- Chem 423: Organic Analysis
- Chem 441: Forensic Chemistry Senior Research
- Chem 451: Senior Individual Research
- Chem 459: Forensic Science Internship
- Chem 463: Senior Research and Discovery
- Chem 469: Introduction to Instrumental Analysis
- Chem 470: Forensic DNA Analysis
- Chem 471: Biochemistry I
- Chem 472: Biochemistry Laboratory
- Chem 473: Biochemistry II
- Chem 512: Advanced Instrumental Analysis
- Chem 513: Principles of Analytical Chemistry
- Chem 514: Fundamentals of Electrochemistry
- Chem 519: Chemical Separations
- Chem 524: Principles of Organic Chemistry
- Chem 525: Organic Spectroscopy and Spectrometry
- Chem 527: Adv. Organic Chem., Structure Mechanism
- Chem 528: Adv. Organic Chem., Structure Synthesis
- Chem 529: Stereochemistry
- Chem 530: Advanced Organic Synthesis
- Chem 531: Advanced Physical Chem., Quantum Chem.
- Chem 532: Chemical Thermodynamics





- Chem 534: Physical Biochemistry
- Chem 535: Principles of Physical Chemistry I
- Chem 536: Advanced Phys. Chem., Reaction Dynamics
- Chem 538: Principles of Physical Chemistry II
- Chem 544: Chemical Applications of Group Theory
- Chem 545: Chemical Literature
- Chem 546: Chem for High School Science Teacher I
- Chem 547: Chem. for High School Science Teacher II
- Chem 548: Workshop-Middle School Science Teachers
- Chem 550: Safety in the Chemical Laboratory
- Chem 554: Analytical Environmental Chemistry
- Chem 563: Applied Spectroscopy
- Chem 580: Molecular Biochemistry I
- Chem 581: Molecular Biochemistry II
- Chem 593: Advanced Special Topics in Chemistry
- Chem 617: Research Methodology in Chemistry I
- Chem 651: Research Experience in Chemistry
- Chem 659: Masters Seminar
- Chem 697: Thesis
- Chem 700: Introduction to Graduate Research
- Chem 701: Advanced Inorganic Chemistry I
- Chem 702: Advanced Inorganic Chemistry II
- Chem 703: Inorganic Techniques
- · Chem 705: Seminar in Chemistry
- Chem 715: Selected Topics in Analytical Chemistry
- Chem 717: Internship Seminar in College Chemistry
- Chem 718: Research Methodology in Chemistry II
- Chem 722: Organic Techniques
- Chem 725: Selected Topics in Organic Chemistry
- Chem 733: Selected Topics in Physical Chemistry
- Chem 741: Selected Topics in Inorganic Chemistry
- Chem 750: Area Seminars
- Chem 759: Doctoral Seminar
- · Chem 761: Quantum Chemistry
- Chem 762: Theory of Molecular Structure
- Chem 765: Bioinorganic Chemistry
- Chem 771: Biochemistry I
- Chem 772: Biochemical Techniques
- Chem 773: Biochemistry II
- Chem 774: Selected Topics in Biochemistry
- Chem 776: Nucleic Acid Chemistry
- Chem 777: Protein Structure
- Chem 796: Doctoral Thesis
- Chem 797: Dissertation

#### **Modern Languages**

- Chin 101: Elementary Chinese I
- Chin 102: Elementary Chinese II
- Chin 111: Intensive Chinese I
- Chin 112: Intensive Chinese II
- Chin 198: Elementary Chinese Study Abroad
- Chin 199: Special Topics in Chinese
- Chin 201: Intermediate Chinese I
- Chin 202: Intermediate Chinese II
- Chin 211: Intensive Chinese III
- Chin 212: Intensive Chinese IV
- Chin 215: Chinese Practicum I
- Chin 298: Intermediate Chinese Study Abroad
- Chin 299: Special Topics in Chinese
- Chin 300: Envision Taiwan



- Chin 301: Conversation and Composition I
- Chin 302: Conversation and Composition II
- Chin 313: Media Chinese I: Newspapers and Internet
- Chin 314: Media Chinese II: Broadcast News
- Chin 315: Chinese Practicum II
- Chin 321: Chinese Culture and Civilization
- Chin 325: The Chinese Writing System
- Chin 330: Introduction to Chinese Linguistics
- Chin 331: Intro to Chinese Lit & Literary Analysis
- Chin 361: China through Film and Literature
- · Chin 398: Advanced Chinese Study Abroad
- Chin 399: Special Topics in Chinese
- Chin 401: Advanced Chinese I
- Chin 402: Advanced Chinese II
- Chin 410: Modern Chinese Literature
- Chin 414: Selected Topics in Academic Chinese
- Chin 415: Chinese Practicum III
- Chin 417: Intro to Modern Chinese Literature
- Chin 418: Introduction to Classical Chinese
- Chin 425: Chinese Narratives and Storytelling
- Chin 430: Contrastive Linguistics
- Chin 450: Domain Knowledge
- Chin 500: Exploring 20th-century Chinese Society
- Chin 510: Interpersonal Relations in Chinese Soc
- Chin 511: Chinese Philology
- Chin 512: 21st Century China
- Chin 513: China and the World
- Chin 514: Classical Chinese Literature
- Chin 550: Advanced Domain Knowledge
- Chin 596: Chinese Capstone Academic Program
- Chin 598: Chinese Capstone Internship

#### **College of Liberal Arts**

- Cine 301: Special Topics in Cinema Production
- Cine 302: Special Topics in Cinema Post-Production
- Cine 396: Festival Programming
- Cine 397: Internship in Cinema
- Cine 398: Study Abroad in Cinema
- Cine 399: Special Topics in Cinema

# School of Engineering Computer & Information Science

- CIS 111: Computer Science I
- CIS 112: Computer Science II
- CIS 113: Honors Computer Science I
- CIS 211: Computer Science III
- CIS 251: Programming for Engineering and Sciences
- CIS 333: Digital Design and 3D Printing
- CIS 427: Network Security
- CIS 447: Immersive Media

# School of Applied Sciences Criminal Justice & Legal Studies

- CJ 100: Introduction to Criminal Justice
- CJ 110: Introduction to Law Enforcement
- CJ 115: Introduction to Homeland Security
- CJ 120: Introduction to Corrections
- CJ 155: Law Enforcement Tactical Operations
- CJ 160: Law Enforcement Patrol Procedures
- CJ 202: Statistics in Criminal Justice





- CJ 210: Criminal Law
- CJ 230: Principles of Investigation
- CJ 270: Juvenile Justice
- CJ 285: Foundations of Terrorism
- CJ 300: Ethics in Legal Studies
- CJ 310: Law Enforcement Process and Policy
- CJ 315: Drug Abuse Enforcement and Criminality
- CJ 320: Correctional Treatment Strategies
- CJ 322: Criminal Justice Communications
- CJ 324: Theories of Criminal Behavior
- CJ 325: Emergency Management and CJ
- CJ 330: Hate Crimes and Enforcement
- CJ 340: Homicide and Death Investigations
- CJ 345: Cold Case Investigations
- CJ 360: Independent Study
- CJ 370: Domestic Crimes and Family Law
- CJ 376: Elite Forces and Special Operations
- CJ 390: Special Topics
- CJ 399: Social Justice and Community Service
- CJ 400: Homeland Security Operations
- CJ 410: Criminal Procedure
- CJ 415: Forensic Science & Crime Scene Analysis
- CJ 420: Homeland Security Law
- CJ 421: Selected Topics in Criminal Justice II
- CJ 422: Probation, Parole & Community Correction
- CJ 425: Sex Crimes and Investigations
- CJ 435: Terrorism in the Twenty-First Century
- CJ 444: Law of Corrections
- CJ 445: Comparative Criminal Justice Systems
- CJ 450: Criminal Justice Research
- CJ 460: The Correctional Experience
- CJ 465: Criminal Profiling and Serial Offenders
- CJ 470: Border Security
- CJ 490: Criminal Justice Internship
- CJ 499: Colloquium in Criminal Justice
- CJ 585: Current Topics in Criminal Justice
- CJ 600: Criminal Justice Administration
- CJ 601: Criminal Justice Statistical Analysis
- CJ 602: Criminal Justice Research Methods
- CJ 606: Ethics and Human Subjects Research
- CJ 620: Criminal Justice in American Society
- CJ 621: Seminar in Law Enforcement
- CJ 622: Seminar in Courts & Sentencing
- CJ 623: Seminar in Corrections
- CJ 624: Theories of Criminal Behavior
- CJ 625: Criminal Justice Theory
- CJ 630: Seminar in Homeland Security
- CJ 631: Seminar in Emergency Management
- CJ 632: Seminar in Extremism and Terrorism
- CJ 634: Emergency Response Mgmt Policy & Plannin
- CJ 636: Critical Infrastructure Security
- CJ 641: Transnational Crime
- CJ 642: Cybercrime and Cyber Security
- CJ 643: Legal Issues in Criminal Justice
- CJ 645: Criminal and Intelligence Analysis
- CJ 646: Special Topics in Criminal Justice
- CJ 649: Independent StudyCJ 651: Special Topics in HSEM
- CJ 652: Comparative CJ Systems & Policy





- CJ 659: Data Management & Data Science
- CJ 660: Operational and Staff Planning
- CJ 661: CJ Policy and Program Evaluation
- CJ 662: Emer Mgmt and Homeland Sec Policy Eval
- CJ 663: ST in CJ Stats & Research
- CJ 664: GIS and Crime Mapping Analysis
- CJ 667: Qualitative Research Design & Analysis
- CJ 668: Analytic Writing
- CJ 669: Big Data Analytics
- CJ 670: Intelligence and Homeland Security
- CJ 671: Communications for Criminal Justice Lead
- CJ 672: Conflict Resolution and Decision Making
- CJ 673: Criminal Justice Evidence-Based Decision
- CJ 674: Budgeting & Finance
- CJ 675: Topics in Judicial Administration
- CJ 676: Principles of Leadership
- CJ 678: Diversity and Inclusion
- CJ 679: Special Topics in CJ Leadership
- CJ 680: Personnel Management
- CJ 681: Law & Public Policy
- CJ 682: Intro to EBPR
- CJ 683: Innovation & Reform in Policing
- CJ 684: Police & Community Partnerships
- CJ 688: Police Technology & Policy
- CJ 690: Applied Criminal Justice Graduate Projec
- CJ 692: Criminal Justice Capstone 1
- CJ 693: Criminal Justice Capstone 2
- CJ 697: Thesis
- CJ 701: Proseminar in CJ Policy Studies
- CJ 702: Advanced Criminal Justice Statistics
- CJ 703: Advanced Criminological Theory & Policy
- CJ 704: Advanced Criminal Justice Policy Studies
- CJ 749: Independent Study
- CJ 797: Dissertation

### College of Liberal Arts Music

- Clar 100: Preparatory Clarinet
- Clar 121: Freshman Clarinet I
- Clar 122: Freshman Clarinet II
- Clar 221: Sophomore Clarinet I
- Clar 222: Sophomore Clarinet II
- Clar 241: Sophomore Clarinet Performance I
- Clar 242: Sophomore Clarinet Performance II
- Clar 321: Junior Clarinet I
- Clar 322: Junior Clarinet II
- Clar 341: Junior Clarinet Performance I
- Clar 342: Junior Clarinet Performance II
- Clar 421: Senior Clarinet I
- Clar 422: Senior Clarinet II
- Clar 441: Senior Clarinet Performance I
- Clar 442: Senior Clarinet Performance II
- Clar 521: Advanced Clarinet I
- Clar 522: Advanced Clarinet II
- Clar 541: Advanced Clarinet Performance I
- Clar 542: Advanced Clarinet Performance II
- Clar 621: Graduate Clarinet I
- Clar 622: Graduate Clarinet II
- Clar 641: Graduate Clarinet Performance I
- Clar 642: Graduate Clarinet Performance II



#### **Classics**

- Clc 100: Honors Introduction to Classics
- Clc 101: Introduction to Greek Civilization
- Clc 102: Introduction to Roman Civilization
- Clc 103: Women in Antiquity
- Clc 104: Sports in the Ancient World
- Clc 105: From Myth to Film
- Clc 106: Classical Mythology
- Clc 107: Ancient Cities
- Clc 201: Medical Terminology in Greek and Latin
- Clc 299: Service Learning in Classics
- Clc 303: Greek and Roman Tragedy
- Clc 304: Greek and Roman Comedy
- Clc 305: Topics in Classical Mythology
- Clc 307: Survey of Greek Literature
- Clc 308: Survey of Roman Literature
- Clc 309: Greek and Roman Epic
- · Clc 310: Socrates and Sophistry
- Clc 313: The Roman Republic
- Clc 314: Roman Empire
- · Clc 315: Egyptian Art and Archaeology
- Clc 316: Bronze Age Aegean Art & Archaeology
- Clc 317: Etruscan Art and Archaeology
- Clc 318: Greek Vase Painting
- Clc 319: Greek Sculpture
- Clc 320: Greek Architecture
- Clc 321: Greek Art and Archaeology
- Clc 322: Roman Art and Archaeology
- Clc 323: Art & Archaeology of Pompeii
- Clc 325: Topics in Classical Civilization
- Clc 326: Topics in Classics Abroad
- Clc 327: Greek and Roman Religions
- Clc 328: Ancient Art on Location
- Clc 329: Slavery in Ancient Greece and Rome
- Clc 331: Science & Tech. in the Ancient World
- Clc 332: Ancient Warfare
- Clc 333: Poetry and Politics at Rome
- Clc 340: The Golden Age of Athens
- Clc 341: Alexander the Great
- Clc 342: Law and Life in Ancient Athens
- Clc 349: Archaeological Ethics Bowl Practicum
- Clc 350: Ancient Archaeological Field Session
- Clc 352: From Republic to Empire
- Clc 360: Archaeological and Museum Ethics
- Clc 368: African American Lit and the Classics
- Clc 375: Digital Archaeology
- Clc 401: Internship in Classics
- Clc 415: Studying Ancient Artifacts
- Clc 490: Classics Capstone Seminar
- Clc 491: Classics Capstone Experience
- Clc 499: Classics Assessment Exam
- Clc 502: Directed Research in Ancient History
  Clc 503: Directed Research in Ancient Literature
- Clc 504: Directed Research in Ancient Culture
- Clc 505: Directed Research in Ancient Art & Arch

#### School of Pharmacy Pharmacy Practice

Comm 591: Community Pharmacy Clerkship





### School of Education Leadership & Counselor Education

- Coun 301: Multicult. Issues in Helping Professions
- Coun 307: Educational Psychology
- Coun 309: Psychology of Adolescence
- Coun 333: Psychology of Human Growth and Developme
- Coun 601: Life Span Development
- Coun 602: Intro to Professional Couns & Ethics
- Coun 603: Counseling Skills
- Coun 604: Research in Counseling
- Coun 606: Counseling Theories
- Coun 607: Group Procedures
- Coun 608: Seminar: Issues and Ethics in Counseling
- Coun 609: Multicultural Counseling
- Coun 611: Assessment
- Coun 612: Foun. of Clin. Mental Health Counseling
- Coun 613: Diagnostic Systems in Counseling
- Coun 614: Family Counseling
- Coun 615: Addictions Counseling
- Coun 616: Org/Adm & Consultation: CMH Counseling
- Coun 617: Pre-Practicum and Advanced Skills
- Coun 626: Foundations of College Counseling
- Coun 627: College Stud. Deve. & College Counseling
- Coun 628: Issues & Interventions in College Couns.
- Coun 630: Foundations of School Counseling
- Coun 631: Org/Adm & Consultation: School Counselin
- Coun 635: Psychological Consultation
- · Coun 636: Advanced School Counseling
- · Coun 637: Ldrshp, Advocacy, & Acctbility in SC
- Coun 640: Career Counseling
- Coun 642: Crisis Intervention
- Coun 644: Counseling Children and Adolescents
- Coun 652: Individual Study
- Coun 653: Topics in Counseling I
- Coun 654: Topics in Counseling II
- Coun 655: Topics in Counseling III
- Coun 656: Thesis
- Coun 661: School-Based Practicum
- Coun 662: Practicum in CMH Counseling
- Coun 663: Internship in School Counseling
- Coun 664: Internship in CMH Counseling
- Coun 671: Assessment in Counseling II
- Coun 676: Individual Assessment I
- Coun 677: Individual Assessment II
- Coun 678: Practicum in School Psychometry
- Coun 701: Introduction to Play Therapy
- Coun 702: Expressive Arts w/ Children & Adolescent
- Coun 703: Current Theories in Play Therapy
- · Coun 704: Application of Play Therapy in Schools
- Coun 705: Application of Play Therapy in MH
- Coun 706: Psychopharmacology in Play Therapy
- Coun 707: Play Therapy Supervision
- Coun 708: Play Therapy in the Courtroom
- Coun 709: Play Therapy with Older Adults
- Coun 710: Child-parent Relationship Therapy
- Coun 711: Play Therapy Practicum
- Coun 712: Play Diagnosis and Assessment
- Coun 715: Collaborative Principal-School Coun Prep
- Coun 716: Trauma Informed Schools





- Coun 717: Working w/ Individuals w/ Disabilities
- Coun 718: Advanced School Counseling Internship
- Coun 720: Adv Professional Identity and Ethics
- Coun 721: Advanced Counseling Theory
- Coun 722: Adv. Multicultural Counseling & Advocacy
- Coun 723: Supervision of Counseling Services
- Coun 724: Research & Publication in Counselor Ed
- Coun 725: Advanced Career Theory and Practice
- · Coun 726: Advanced Group Counseling
- · Coun 727: Adv Assessment, Diagnosis and Treatment
- Coun 728: Advanced Clinical Supervision
- Coun 729: Leadership, Program Eval & Accreditatio
- Coun 731: Transitioning into the Professionals
- Coun 732: Advanced Topics in Counselor Education
- Coun 733: College Teaching in Counselor Education
- Coun 734: Doctoral Seminar
- Coun 735: Grant Writing
- Coun 765: Advanced Practicum
- Coun 785: Supervision Internship
- Coun 790: Doctoral Teaching Internship in Coun. Ed
- Coun 795: Doctoral Internship in Counseling
- Coun 796: Graded Dissertation
- Coun 797: Dissertation

### School of Engineering Electrical and Computer Engineering

#### • Cp E 421: Embedded Systems Design

- Cp E 431: Computer Architecture
- Cp E 432: Testing of Computing Systems
- Cp E 461: Senior Design in Computer Engineering I
- Cp E 462: Senior Design in Computer Engineering II

### School of Applied Sciences Criminal Justice & Legal Studies

• CR 412: Judicial Reporting Procedures

## School of Pharmacy Pharmacy Practice

• Crit 591: Critical Care Clerkship

## College of Liberal Arts Croft Inst for International Studies

• Croft Thesis: UM Croft Thesis

## School of Engineering Computer & Information Science

- Csci 103: Survey of Computing
- Csci 111: Computer Science I
- Csci 112: Computer Science II
- Csci 113: Honors Computer Science I
- Csci 191: Office Applications
- Csci 192: Computing Applications
- Csci 193: Personal Computer Systems
- Csci 203: Introduction to Computational Media
- Csci 211: Computer Science III
- Csci 223: Computer Org. & Assembly Language
- Csci 251: Programming for Engineering and Sciences
- Csci 256: Programming in Python
- Csci 259: Programming in C++
- Csci 300: Social Responsibility in Comp. Science
- · Csci 305: Software for Global Use





- Csci 311: Models of Computation
- Csci 323: Systems of Programming
- Csci 325: Foundations of Computer Security
- · Csci 333: Digital Design and 3D Printing
- Csci 343: Fundamentals of Data Science
- Csci 345: Information Storage and Retrieval
- Csci 353: Introduction to Numerical Methods
- Csci 354: Web Programming
- Csci 356: Data Structures in Python
- Csci 361: Introduction to Computer Networks
- Csci 387: Software Design and Development
- Csci 390: Special Topics in Programming
- Csci 391: Computer Graphics
- Csci 405: Computer Simulation
- Csci 423: Introduction to Operating Systems
- Csci 425: Code Generation and Optimization
- Csci 426: System Security
- Csci 427: Network Security
- Csci 431: Robotics Programming
- Csci 433: Algorithm and Data Structure Analysis
- Csci 443: Advanced Data Science
- Csci 444: Information Visualization
- Csci 447: Immersive Media
- Csci 450: Organization of Programming Languages
- Csci 458: Mobile Application Development
- Csci 475: Introduction to Database Systems
- Csci 487: Senior Project
- Csci 490: Special Topics
- Csci 491: Special Topics in Computer Security
- Csci 492: Special Topics in Data Science
- Csci 500: Fundamental Concepts in Computing
- Csci 501: Fundamental Concepts in Systems
- Csci 502: Fundamental Concepts in Algorithms
- Csci 503: Fundamental Concepts in Languages
- Csci 517: Natural Language Processing
- Csci 520: Formal Theory of Computer Languages
- Csci 521: Computer Systems Engineering
- Csci 523: Operating Systems
- Csci 524: Distributed Operating System Design
- Csci 525: Compiler Construction
- Csci 526: Parallel Computing
- Csci 530: Computer Architecture and Design
- Csci 531: Artificial Intelligence
- Csci 533: Analysis of Algorithms
- Csci 541: Expert Systems and Logic Programming
- Csci 543: Data Mining
- Csci 547: Digital Image Processing
- Csci 550: Program Semantics and Derivation
- Csci 551: Computer System Performance Analysis
- Csci 554: Web Architecture and Programming
- Csci 555: Functional Programming
- Csci 556: Multiparadigm Programming
- Csci 557: GPU Computing
- Csci 561: Computer Networks
- Csci 562: Software Engineering I
- Csci 575: Database Systems
- Csci 581: Special Topics in Computer Science I
- Csci 582: Special Topics in Computer Science II
- Csci 632: Machine Learning





- Csci 658: Software Language Engineering
- Csci 663: Software Families
- Csci 665: Wireless and Sensor Networks

### School of Applied Sciences Communication Sciences & Disorders

- CSD 201: Introduction to Communicative Disorders
- CSD 202: Statistics for CSD
- CSD 205: Anatomy and Physiology
- CSD 211: Introduction to Phonetics
- CSD 216: Normal Development of Communication
- CSD 301: Introduction to Speech Sound Disorders
- CSD 302: Research Methods for CSD
- CSD 303: Communication Deficits in Older Adults
- CSD 304: Introduction to Hearing Conservation
- CSD 316: Language and Learning Disorders
- CSD 351: Basic Audiology
- CSD 356: Principles of Auditory (Re)Habilitation
- CSD 359: Manual Communication
- CSD 360: Study USA ASHA Convention & Site
- CSD 401: Diagnostic Procedures
- CSD 405: Fluency and Voice Disorders
- CSD 430: Practices in Audiology
- CSD 452: Fundamental Speech & Hearing Science
- CSD 455: Neuroanat & Neurophys of Speech & Hearin
- CSD 494: Honors Thesis I
- CSD 495: Introduction to Clinical Science
- CSD 496: Honors Thesis II
- CSD 497: Methods & Associate Licensure in SLP
- CSD 498: Undergrad Practicum in SLP/Audiology
- CSD 499: Directed Research Practicum
- CSD 501: Survey of Communicative Disorders
- CSD 505: Neurophysiology and Genetics of Communic
- CSD 506: Anat/Phys/Path Aud Sys
- CSD 507: Fundamentals of Hearing Science
- CSD 513: Speech Science
- CSD 520: Advanced Diagnostic Techniques
- CSD 521: Disorders of Fluency
- CSD 523: Speech Sound Disorders
- CSD 526: Neurogenic Disorders of Language
- CSD 531: Special Problems in CD
- CSD 541: Child Lang Development & Assessment
- CSD 551: Clinical Audiology
- CSD 557: Audiology for the SLP
- CSD 560: Manual Communication I
- CSD 562: Manual Communication II
- CSD 575: Audio Instru & Meas
- CSD 591: Clinical Practicum in Audiology
- CSD 592: CI Sem/Speech-Lang Path
- CSD 593: Clinical Seminar in Audiology
- CSD 601: Directed Study
- CSD 605: Counseling Thry/Prac
- CSD 606: Ethics and Human Subjects Research
- CSD 612: Advanced Clinical Audiology
- CSD 613: Rsch Design & Anal
- CSD 615: Electrophysiologic Evaluation
- CSD 620: Assessment and Treatment of Dysphagia
- CSD 622: Voice and Resonance Disorders
- CSD 624: Craniofacial Anomalies
- CSD 625: Autism and Developmental Disabilities





- CSD 626: Aphasia
- CSD 627: Neurogenic Disorders of Speech & AAC
- CSD 630: Cerebral Palsy
- CSD 631: Communication Changes in Aging
- CSD 632: Workshop in Comm Sciences & Disorders
- CSD 642: Child Lang Diagnostics & Intervention
- CSD 649: Pediatric Audiology
- CSD 651: Aural Rehabilitation
- CSD 653: Hearing Aids
- CSD 654: Adv Amp Theory & Tech
- CSD 657: Industrial Audiology
- CSD 659: Seminar in Audiology
- CSD 670: Cen Aud Proc
- CSD 673: Perception of Speech
- CSD 690: Prof. Ethics, Licensure, and Curr Trends
- CSD 691: Graduate Practicum
- CSD 692: Graduate Practicum
- CSD 693: Graduate Practicum
- CSD 694: Graduate Practicum
- CSD 695: Graduate Practicum
- CSD 697: Thesis