



Academics

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Course Index

Α В С D E F G Н T Κ М Ν 0 P <u>R</u> <u>S</u> Τ

U V

W School of Engineering

- <u>C E 101</u>: Introduction to Civil Engineering I
- <u>C E 102: Introduction to Civil Engineering II</u>
- <u>C E 205: Civil Engineering Laboratory I</u>
- <u>C E 207: Surveying</u>
- <u>C E 208: Civil Engineering Graphics I</u>
- <u>C E 305: Civil Engineering Laboratory II</u>
- C E 310: Introduction to Structural Mechanics
- C E 311: Structural Analysis
- <u>C E 315: Civil Engineering Materials</u>
- <u>C E 325: Intermediate Dynamics</u>
- <u>C E 401: Civil Engineering Fundamentals</u>
- <u>C E 405: Civil Engineering Laboratory III</u>
- C E 412: Design of Concrete Structures





- C E 413: Steel Design
- <u>C E 414: Advanced Concrete Design</u>
- <u>C E 416: Bridge Engineering</u>
- <u>C E 417: Construction Engineering and Management</u>
- <u>C E 421: Matrix Analysis of Structures</u>
- CE 431: Soil Mechanics I
- <u>C E 433: Foundation Engineering</u>
- <u>C E 435: Advanced Geotechnical Engineering</u>
- <u>C E 452: Civil Engineering Analysis</u>
- <u>C E 455: Civil Engineering Design I</u>
- <u>C E 456: Civil Engineering Design II</u>
- <u>C E 471: Environmental Engineering I</u>
- C E 472: Water Resources Engineering
- <u>C E 481: Transportation Engineering I</u>
- <u>C E 495: Geospatial Analysis for Engr & Vis Apps</u>
- <u>C E 497: Civil Engineering Projects</u>
- C E 511: Structural Dynamics
- <u>C E 513: Advanced Steel Design</u>
- <u>C E 514: Pre-Stressed Concrete Design</u>
- C E 521: Advanced Mechanics of Materials
- CE 531: Soil Mechanics II
- <u>C E 541: Flow in Open Channels</u>
- C E 542: Flow in Porous Media
- <u>C E 543: Sediment Transport</u>
- <u>C E 561: Civil Engineering Systems</u>
- C E 570: Infrastructure Management
- <u>C E 572: Stormwater Engineering and Management</u>
- <u>C E 581: Transportation Engineering II</u>
- C E 585: Highway Pavements
- <u>C E 590: Airport Planning and Design</u>

School of Engineering

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

Graduate School

• C&H Thesis: UM Croft and Honors Thesis

School of Pharmacy

Pharmacy Practice

• Card 591: Cardiology Clerkship

School of Engineering Chemical Engineering

- Ch E 101: Introduction to Chemical Engineering
- Ch E 103: Introduction to Chemical Engineering I
- Ch E 104: Introduction to Chemical Engineering II
- Ch E 251: Programming for Chemical Engineering
- Ch E 307: Chemical Process Principles I
- Ch E 308: Chemical Process Principles II
- Ch E 309: Intro to Chemical Engineering Design





- <u>Ch E 313: Modeling and Simulation I</u>
- <u>Ch E 314: Modeling and Simulation II</u>
- <u>Ch E 317: Process Fluid Dynamics and Heat Transfer</u>
- <u>Ch E 330: Chemical Eng. R & D Experience</u>
- <u>Ch E 345: Engineering Economy</u>
- <u>Ch E 407: Chemical Engineering Projects I</u>
- <u>Ch E 408: Chemical Engineering Projects II</u>
- <u>Ch E 411: Chemical Engineering Seminar</u>
- <u>Ch E 412: Process Control and Safety</u>
- <u>Ch E 413: Chemical Process Safety</u>
- Ch E 417: Separation Processes
- <u>Ch E 421: Chemical Engineering Thermodynamics</u>
- <u>Ch E 423: Chemical Reactor Analysis and Design</u>
- <u>Ch E 431: ChE Mass and Energy Balance Lab</u>
- Ch E 432: ChE Unit Operations Lab
- <u>Ch E 433: ChE Design Lab</u>
- <u>Ch E 445: Chemical Engineering Lab I</u>
- <u>Ch E 446: Chemical Engineering Lab II</u>
- <u>Ch E 449: Process Design</u>
- <u>Ch E 450: Process Optimization</u>
- Ch E 451: Plant Design I
- Ch E 452: Plant Design II
- Ch E 460: Product Design I:Development, Evaluation
- <u>Ch E 461: Product Design II: Product Realization</u>
- Ch E 470: Principles of Lean Six Sigma
- Ch E 511: Process Dynamics and Control
- <u>Ch E 513: Special Topics in Chemical Engineering</u>
- Ch E 515: Research Seminar
- Ch E 520: Biochemical Engineering
- <u>Ch E 521: Drug and Gene Delivery</u>
- <u>Ch E 522: Immunoengineering</u>
- Ch E 523: Molecular and Cellular Biophysics
- Ch E 524: Microscopy for Engineers
- Ch E 528: Polymer Processing
- <u>Ch E 530: Coal Utilization and Pollutants Control</u>
- Ch E 535: Experimental Methods in Engineering
- <u>Ch E 540: Coating Materials Process & Applications</u>
- <u>Ch E 541: Appl of Chemical Instrumentation I</u>
- Ch E 542: Appl of Chemical Instrumentation II
- 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
- <u>Ch E 561: Advanced Transport Phenomena II</u>
- 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
- <u>Chem 107: Honors Recitation I</u>
- Chem 108: Honors Recitation II
- Chem 113: Survey of Chemistry Laboratory I
- Chem 114: Survey of Chemistry Laboratory II
- <u>Chem 115: General Chemistry Laboratory I</u>





- <u>Chem 116: General Chemistry Laboratory II</u>
- <u>Chem 121: Fundamentals of Organic Chemistry</u>
- <u>Chem 201: Environmental Chemistry I</u>
- <u>Chem 202: Environmental Chemistry II</u>
- <u>Chem 221: Elementary Organic Chemistry I</u>
- <u>Chem 222: Elementary Organic Chemistry II</u>
- <u>Chem 225: Elementary Organic Chem. Laboratory I</u>
- <u>Chem 226: Elementary Organic Chem. Laboratory II</u>
- <u>Chem 251: Introduction to Individual Research</u>
- Chem 271: Biochemical Concepts
- <u>Chem 293: Special Topics in Chemistry</u>
- <u>Chem 314: Quantitative Analysis</u>
- <u>Chem 319: Chem & Phys Methods of Forensic Chem</u>
- Chem 331: Physical Chemistry I
- Chem 332: Physical Chemistry II
- Chem 334: Biophysical Chemistry
- <u>Chem 337: Physical Chemistry Laboratory I</u>
- Chem 351: Individual Research
- <u>Chem 373: Intermediate Biochemistry</u>
- <u>Chem 381: Chemistry for Teachers I</u>
- <u>Chem 382: Chemistry for Teachers II</u>
- Chem 383: Chemistry for Teachers III
- Chem 393: Advanced Special Topics in Chemistry
- Chem 401: Inorganic Chemistry
- <u>Chem 402: Inorganic Chemistry Laboratory</u>
- <u>Chem 415: Computer Methods in Chemistry</u>
- <u>Chem 421: Recitation in Organic Chemistry I</u>
- <u>Chem 422: Recitation in Organic Chemistry II</u>
- Chem 423: Organic Analysis
- <u>Chem 441: Forensic Chemistry Senior Research</u>
- <u>Chem 459: Forensic Science Internship</u>
- <u>Chem 463: Senior Research and Discovery</u>
- <u>Chem 469: Introduction to Instrumental Analysis</u>
- Chem 470: Forensic DNA Analysis
- Chem 471: Biochemistry I
- <u>Chem 472: Biochemistry Laboratory</u>
- Chem 473: Biochemistry II
- <u>Chem 512: Advanced Instrumental Analysis</u>
- <u>Chem 513: Principles of Analytical Chemistry</u>
- <u>Chem 514: Fundamentals of Electrochemistry</u>
- Chem 519: Chemical Separations
- <u>Chem 524: Principles of Organic Chemistry</u>
- <u>Chem 525: Organic Spectroscopy and Spectrometry</u>
- Chem 527: Adv. Organic Chem., Structure Mechanism
- <u>Chem 528: Adv. Organic Chem., Structure Synthesis</u>
- Chem 529: Stereochemistry
- <u>Chem 530: Advanced Organic Synthesis</u>
- Chem 531: Advanced Physical Chem., Quantum Chem.
- <u>Chem 532: Chemical Thermodynamics</u>
- Chem 534: Physical Biochemistry
- Chem 535: Principles of Physical Chemistry I
- <u>Chem 536: Advanced Phys. Chem., Reaction Dynamics</u>
- <u>Chem 538: Principles of Physical Chemistry II</u>
- <u>Chem 544: Chemical Applications of Group Theory</u>
- <u>Chem 545: Chemical Literature</u>
- <u>Chem 546: Chem for High School Science Teacher I</u>
- Chem 547: Chem. for High School Science Teacher II
- <u>Chem 548: Workshop-Middle School Science Teachers</u>
- Chem 550: Safety in the Chemical Laboratory





- <u>Chem 554: Analytical Environmental Chemistry</u>
- <u>Chem 563: Applied Spectroscopy</u>
- Chem 580: Molecular Biochemistry I
- Chem 581: Molecular Biochemistry II
- <u>Chem 593: Advanced Special Topics in Chemistry</u>
- <u>Chem 617: Research Methodology in Chemistry I</u>
- <u>Chem 659: Masters Seminar</u>
- <u>Chem 697: Thesis</u>
- <u>Chem 700: Introduction to Graduate Research</u>
- <u>Chem 701: Advanced Inorganic Chemistry I</u>
- <u>Chem 702: Advanced Inorganic Chemistry II</u>
- <u>Chem 703: Inorganic Techniques</u>
- <u>Chem 705: Seminar in Chemistry</u>
- Chem 715: Selected Topics in Analytical Chemistry
- <u>Chem 717: Internship Seminar in College Chemistry</u>
- <u>Chem 718: Research Methodology in Chemistry II</u>
- Chem 722: Organic Techniques
- Chem 725: Selected Topics in Organic Chemistry
- <u>Chem 733: Selected Topics in Physical Chemistry</u>
- Chem 741: Selected Topics in Inorganic Chemistry
- Chem 750: Area Seminars
- <u>Chem 759: Doctoral Seminar</u>
- <u>Chem 761: Quantum Chemistry</u>
- Chem 762: Theory of Molecular Structure
- Chem 765: Bioinorganic Chemistry
- Chem 771: Biochemistry I
- Chem 772: Biochemical Techniques
- Chem 773: Biochemistry II
- <u>Chem 774: Selected Topics in Biochemistry</u>
- <u>Chem 776: Nucleic Acid Chemistry</u>
- <u>Chem 777: Protein Structure</u>
- <u>Chem 796: Doctoral Thesis</u>
- Chem 797: Dissertation

Modern Languages

- Chin 101: Elementary Chinese I
- Chin 102: Elementary Chinese II
- <u>Chin 111: Intensive Chinese I</u>
- Chin 112: Intensive Chinese II
- <u>Chin 198: Elementary Chinese Study Abroad</u>
- 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
- <u>Chin 301: Conversation and Composition I</u>
- 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
- <u>Chin 321: Chinese Culture and Civilization</u>
- <u>Chin 330: Introduction to Chinese Linguistics</u>
- Chin 331: Intro to Chinese Lit & Literary Analysis
- Chin 361: China through Film and Literature
- Chin 398: Advanced Chinese Study Abroad
- <u>Chin 399: Special Topics in Chinese</u>
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- <u>Chin 401: Advanced Chinese I</u>
- 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 450: Domain Knowledge
- 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
- <u>Chin 596: Chinese Capstone Academic Program</u>
- <u>Chin 598: Chinese Capstone Internship</u>

College of Liberal Arts

- Cine 201: Cinema Survey I
- Cine 202: Cinema Survey II
- <u>Cine 301: Special Topics in Cinema Production</u>
- <u>Cine 302: Special Topics in Cinema Post-Production</u>
- Cine 396: Festival Programming
- <u>Cine 397: Internship in Cinema</u>
- <u>Cine 398: Study Abroad in Cinema</u>
- <u>Cine 399: Special Topics in Cinema</u>

School of Applied Sciences Legal Studies

- <u>CJ 100: Introduction to Criminal Justice</u>
- <u>CJ 110: Introduction to Law Enforcement</u>
- CJ 115: Introduction to Homeland Security
- CJ 120: Introduction to Corrections
- CJ 155: Law Enforcement Tactical Operations
- <u>CJ 160: Law Enforcement Patrol Procedures</u>
- CJ 202: Statistics in Criminal Justice
- <u>CJ 210: Criminal Law</u>
- CJ 230: Principles of Investigation
- <u>CJ 270: Juvenile Justice</u>
- <u>CJ 285: Foundations of Terrorism</u>
- CJ 300: Ethics in Legal Studies
- CJ 310: Law Enforcement Process and Policy
- CJ 315: Drug Abuse Enforcement and Criminality
- <u>CJ 320: Correctional Treatment Strategies</u>
- CJ 322: Criminal Justice Communications
- CJ 324: Theories of Criminal Behavior
- CJ 325: Emergency Management and CJ
- CI 330: Hate Crimes and Enforcement
- Cl 340: Homicide and Death Investigations
- Cl 345: Cold Case Investigations
- <u>CI 360: Independent Study</u>
- CJ 370: Domestic Crimes and Family Law
- CJ 376: Elite Forces and Special Operations
- <u>CJ 390: Special Topics</u>
- CJ 399: Social Justice and Community Service
- <u>CJ 400: Homeland Security Operations</u>
- 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
- <u>CJ 425: Sex Crimes and Investigations</u>
- CJ 435: Terrorism in the Twenty-First Century
- <u>CJ 444: Law of Corrections</u>
- <u>CJ 445: Comparative Criminal Justice Systems</u>
- <u>CJ 450: Criminal Justice Research</u>
- CJ 460: The Correctional Experience
- <u>CJ 465: Criminal Profiling and Serial Offenders</u>
- <u>CJ 470: Border Security</u>
- <u>CJ 490: Criminal Justice Internship</u>
- <u>CJ 499: Colloquium in Criminal Justice</u>
- <u>CJ 510: Emergency Management</u>
- <u>CJ 585: Current Topics in Criminal Justice</u>
- <u>CJ 600: Criminal Justice Administration</u>
- CJ 606: Ethics and Human Subjects Research
- <u>CJ 610: Homeland Security Operations</u>
- <u>CJ 615: Transnational Organized Crime</u>
- 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 634: Emergency Response Mgmt Policy & Plannin
- CJ 635: Criminal Justice Research Methods
- <u>CJ 640: Legal Issues in Criminal Justice</u>
- <u>CJ 642: Cybercrime and Cyber Security</u>
- CJ 645: Criminal and Intelligence Analysis
- <u>CJ 650: Terrorism and Homeland Security</u>
- <u>CJ 651: Special Topics</u>
- <u>CJ 655: Criminal Justice Statistical Analysis</u>
- <u>CJ 660: Operational and Staff Planning</u>
- <u>CJ 661: CJ Policy and Program Evaluation</u>
- CJ 662: Emer Mgmt and Homeland Sec Policy Eval
- <u>CJ 663: ST in CJ Stats & Research: Qualitative</u>
- CI 664: GIS and Crime Mapping Analysis
- <u>CI 665: Transportation and Border Security</u>
- CJ 670: Intelligence and Homeland Security
- CJ 671: Communications for Criminal Justice Lead
- <u>CJ 672: Conflict Resolution and Decision Making</u>
- <u>CJ 673: Criminal Justice Evidence-Based Decision</u>
- CJ 674: Budgeting & Finance
- CJ 675: Topics in Judicial Administration
- <u>CJ 676: Principles of Leadership</u>
- CJ 678: Diversity and Inclusion
- CJ 679: Special Topics in Criminal Justice
- <u>CJ 680: Personnel Management</u>
- CJ 681: Law & Public Policy
- CI 685: Special Topics in Justice Studies
- <u>CI 690: Criminal Justice Practicum</u>
- CI 693: Criminal Justice Capstone
- Cl 695: Independent Study
- <u>CJ 697: Thesis</u>
- <u>CJ 701: Proseminar in CJ Policy Studies</u>
- CI 702: Advanced Criminal Justice Statistics
- CJ 703: Advanced Criminological Theory & Policy
- CI 704: Advanced Criminal Justice Policy Studies

College of Liberal Arts





<u>Music</u>

- <u>Clar 100: Preparatory Clarinet</u>
- Clar 121: Freshman Clarinet I
- Clar 122: Freshman Clarinet II
- Clar 221: Sophomore Clarinet I
- Clar 222: Sophomore Clarinet II
- <u>Clar 241: Sophomore Clarinet Performance I</u>
- <u>Clar 242: Sophomore Clarinet Performance II</u>
- <u>Clar 321: Junior Clarinet I</u>
- 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
- <u>Clar 441: Senior Clarinet Performance I</u>
- Clar 442: Senior Clarinet Performance II
- <u>Clar 521: Advanced Clarinet I</u>
- <u>Clar 522: Advanced Clarinet II</u>
- <u>Clar 541: Advanced Clarinet Performance I</u>
- <u>Clar 542: Advanced Clarinet Performance II</u>
- <u>Clar 621: Graduate Clarinet I</u>
- Clar 622: Graduate Clarinet II
- <u>Clar 641: Graduate Clarinet Performance I</u>
- <u>Clar 642: Graduate Clarinet Performance II</u>

Classics

- <u>Clc 100: Honors Introduction to Classics</u>
- Clc 101: Introduction to Greek Civilization
- <u>Clc 102: Introduction to Roman Civilization</u>
- <u>Clc 103: Women in Antiquity</u>
- Clc 104: Sports in the Ancient World
- Clc 105: From Myth to Film
- <u>Clc 106: Classical Mythology</u>
- <u>Clc 107: Ancient Cities</u>
- Clc 201: Medical Terminology in Greek and Latin
- <u>Clc 299: Service Learning in Classics</u>
- Clc 303: Greek and Roman Tragedy
- <u>Clc 304: Greek and Roman Comedy</u>
- Clc 305: Topics in Classical Mythology
- <u>Clc 307: Survey of Greek Literature</u>
- Clc 308: Survey of Roman Literature
- Clc 309: Greek and Roman Epic
- Clc 310: Socrates and Sophistry
- Clc 313: The Roman Republic
- <u>Clc 314: Roman Empire</u>
- Clc 315: Egyptian Art and Archaeology
- <u>Clc 316: Bronze Age Aegean Art & Archaeology</u>
- <u>Clc 317: Etruscan Art and Archaeology</u>
- Clc 318: Greek Vase Painting
- <u>Clc 319: Greek Sculpture</u>
- <u>Clc 320: Greek Architecture</u>
- Clc 320. Greek Art and Archa
- <u>Clc 321: Greek Art and Archaeology</u>
- Clc 322: Roman Art and Archaeology
- Clc 323: Art & Archaeology of Pompeii
- <u>Clc 325: Topics in Classical Civilization</u>
- <u>Clc 326: Topics in Classics Abroad</u>
- <u>Clc 327: Greek and Roman Religions</u>
- <u>Clc 328: Ancient Art on Location</u>
- <u>Clc 331: Science & Tech. in the Ancient World</u>





- <u>Clc 332: Ancient Warfare</u>
- <u>Clc 333: Poetry and Politics at Rome</u>
- <u>Clc 340: The Golden Age of Athens</u>
- 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
- <u>Clc 360: Ethics in Archaeology</u>
- <u>Clc 375: Digital Archaeology</u>
- <u>Clc 401: Internship in Classics</u>
- Clc 415: Studying Ancient Artifacts
- <u>Clc 490: Classics Capstone Seminar</u>
- <u>Clc 491: Classics Capstone Experience</u>
- <u>Clc 499: Classics Assessment Exam</u>
- <u>Clc 501: Topics in Greek History</u>
- Clc 502: Topics in Roman History
- <u>Clc 503: Directed Research in Ancient Literature</u>
- <u>Clc 504: Directed Research in Ancient Culture</u>
- <u>Clc 523: Ancient Art</u>

School of Pharmacy Pharmacy Practice

<u>Comm 591: Community Pharmacy Clerkship</u>

School of Education Leadership & Counselor Education

- Coun 307: Educational Psychology
- Coun 309: Psychology of Adolescence
- <u>Coun 333: Psychology of Human Growth and Developme</u>
- <u>Coun 602: Intro to Professional Couns & Ethics</u>
- Coun 603: Counseling Skills
- <u>Coun 604: Research in Counseling</u>
- Coun 606: Counseling Theory I
- Coun 607: Group Procedures
- <u>Coun 608: Seminar: Issues and Ethics in Counseling</u>
- <u>Coun 609: Multicultural Issues in Counseling</u>
- <u>Coun 611: Assessment in Counseling I</u>
- <u>Coun 612: Foun. of Clin. Mental Health Counseling</u>
- <u>Coun 613: Diagnostic Systems in Counseling</u>
- Coun 614: Family Counseling
- Coun 615: Addictions
- 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.
- <u>Coun 630: Foundations of School Counseling</u>
- <u>Coun 631: Org/Adm & Consultation: School Counselin</u>
- Coun 635: Psychological Consultation
- <u>Coun 636: Advanced School Counseling</u>
- <u>Coun 637: Ldrshp, Advocacy, & Acctbility in SC</u>
- Coun 640: Career Counseling
- Coun 641: Life Span Development
- Coun 642: Crisis Intervention
- <u>Coun 644: Counseling Children and Adolescents</u>
- 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
- <u>Coun 661: School Counseling Practicum</u>
- <u>Coun 662: Practicum in Counseling</u>
- <u>Coun 663: Internship in School Counseling</u>
- <u>Coun 664: Internship in Counseling</u>
- Coun 671: Assessment in Counseling II
- Coun 676: Individual Assessment I
- Coun 677: Individual Assessment II
- <u>Coun 678: Practicum in School Psychometry</u>
- <u>Coun 701: Introduction to Play Therapy</u>
- <u>Coun 702: Expressive Arts w/ Children & Adolescent</u>
- Coun 703: Current Theories in Play Therapy
- Coun 704: Application of Play Therapy in Schools
- Coun 705: Application of Play Therapy in MH
- <u>Coun 706: Psychopharmacology in Play Therapy</u>
- <u>Coun 707: Play Therapy Supervision</u>
- 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 720: Adv Professional Identity and Ethics
- <u>Coun 721: Advanced Counseling Theory</u>
- <u>Coun 722: Adv. Multicultural Counseling & Advocacy</u>
- Coun 723: Supervision of Counseling Services
- Coun 724: Research & Publication in Counselor Ed
- <u>Coun 725: Advanced Career Theory and Practice</u>
- <u>Coun 726: Advanced Group Counseling</u>
- 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
- <u>Coun 733: College Teaching in Counselor Education</u>
- Coun 765: Advanced Practicum
- Coun 785: Supervision Internship
- Coun 790: Doctoral Teaching Internship in Coun. Ed
- <u>Coun 795: Doctoral Internship in Counseling</u>
- <u>Coun 796: Graded Dissertation</u>
- Coun 797: Dissertation

School of Engineering Electrical Engineering

- Cp E 421: Embedded Systems Design
- <u>Cp E 431: Computer Architecture</u>
- 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 Legal Studies

• <u>CR 412: Judicial Reporting Procedures</u>

School of Pharmacy Pharmacy Practice

• Crit 591: Critical Care Clerkship





College of Liberal Arts International Studies

<u>Croft Thesis: UM Croft Thesis</u>

School of Engineering Computer & Information Science

- <u>Csci 103: Survey of Computing</u>
- <u>Csci 111: Computer Science I</u>
- <u>Csci 112: Computer Science II</u>
- <u>Csci 191: Office Applications</u>
- <u>Csci 192: Computing Applications</u>
- <u>Csci 193: Personal Computer Systems</u>
- <u>Csci 203: Introduction to Computational Media</u>
- Csci 211: Computer Science III
- <u>Csci 223: Computer Org. & Assembly Language</u>
- 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
- <u>Csci 325: Foundations of Computer Security</u>
- <u>Csci 333: Digital Design and 3-D Printing</u>
- Csci 343: Fundamentals of Data Science
- Csci 345: Information Storage and Retrieval
- <u>Csci 353: Introduction to Numerical Methods</u>
- Csci 354: Web Programming
- Csci 356: Data Structures in Python
- <u>Csci 361: Introduction to Computer Networks</u>
- <u>Csci 387: Software Design and Development</u>
- Csci 390: Special Topics in Programming
- <u>Csci 391: Computer Graphics</u>
- Csci 405: Computer Simulation
- Csci 423: Introduction to Operating Systems
- <u>Csci 425: Code Generation and Optimization</u>
- <u>Csci 426: System Security</u>
- <u>Csci 427: Fundamentals of Computer Security</u>
- <u>Csci 431: Robotics Programming</u>
- Csci 433: Algorithm and Data Structure Analysis
- <u>Csci 443: Advanced Data Science</u>
- Csci 444: Information Visualization
- Csci 447: Immersive Media
- <u>Csci 450: Organization of Programming Languages</u>
- Csci 458: Mobile Application Development
- <u>Csci 475: Introduction to Database Systems</u>
- <u>Csci 487: Senior Project</u>
- <u>Csci 490: Special Topics</u>
- <u>Csci 491: Special Topics in Computer Security</u>
- Csci 492: Special Topics in Data Science
- <u>Csci 500: Fundamental Concepts in Computing</u>
- <u>Csci 501: Fundamental Concepts in Systems</u>
- Csci 502: Fundamental Concepts in Algorithms
- Csci 503: Fundamental Concepts in Languages
- <u>Csci 517: Natural Language Processing</u>
- <u>Csci 520: Formal Theory of Computer Languages</u>
- <u>Csci 521: Computer Systems Engineering</u>
- <u>Csci 523: Operating Systems</u>
- Csci 524: Distributed Operating System Design





- <u>Csci 525: Compiler Construction</u>
- Csci 526: Parallel Computing
- <u>Csci 530: Computer Architecture and Design</u>
- Csci 531: Artificial Intelligence
- Csci 533: Analysis of Algorithms
- <u>Csci 541: Expert Systems and Logic Programming</u>
- <u>Csci 543: Data Mining</u>
- Csci 547: Digital Image Processing
- <u>Csci 550: Program Semantics and Derivation</u>
- <u>Csci 551: Computer System Performance Analysis</u>
- <u>Csci 554: Web Architecture and Programming</u>
- <u>Csci 555: Functional Programming</u>
- <u>Csci 556: Multiparadigm Programming</u>
- Csci 557: GPU Computing
- <u>Csci 561: Computer Networks</u>
- Csci 562: Software Engineering I
- <u>Csci 575: Database Systems</u>
- <u>Csci 581: Special Topics in Computer Science I</u>
- <u>Csci 582: Special Topics in Computer Science II</u>
- <u>Csci 632: Machine Learning</u>
- Csci 658: Software Language Engineering
- Csci 663: Software Families
- <u>Csci 665: Wireless and Sensor Networks</u>

School of Applied Sciences Communication Sciences & Disorders

- <u>CSD 201: Introduction to Communicative Disorders</u>
- <u>CSD 202: Statistics for CSD</u>
- CSD 205: Anatomy and Physiology
- <u>CSD 211: Introduction to Phonetics</u>
- <u>CSD 216: Normal Development of Communication</u>
- CSD 301: Introduction to Speech Sound Disorders
- CSD 302: Research Methods for CSD
- <u>CSD 303: Communication Deficits in Older Adults</u>
- <u>CSD 304: Introduction to Hearing Conservation</u>
- CSD 316: Language and Learning Disorders
- CSD 351: Basic Audiology
- CSD 356: Principles of Auditory (Re)Habilitation
- CSD 359: Manual Communication
- <u>CSD 360: Study USA ASHA Convention & Site</u>
- <u>CSD 401: Diagnostic Procedures</u>
- <u>CSD 405: Fluency and Voice Disorders</u>
- <u>CSD 430: Practices in Audiology</u>
- <u>CSD 452: Fundamental Speech & Hearing Science</u>
- <u>CSD 455: Neuroanat & Neurophys of Speech & Hearin</u>
- CSD 494: Honors Thesis I
- <u>CSD 495: Introduction to Clinical Science</u>
- CSD 496: Honors Thesis II
- <u>CSD 497: Methods & Associate Licensure in SLP</u>
- CSD 498: Undergrad Practicum in SLP
- <u>CSD 499: Directed Research Practicum</u>
- <u>CSD 501: Survey of Communicative Disorders</u>
- <u>CSD 505: Neurophysiology of Communication</u>
- CSD 506: Anat/Phys/Path Aud Sys
- <u>CSD 507: Fundamentals of Hearing Science</u>
- <u>CSD 513: Speech Science</u>
- <u>CSD 520: Advanced Diagnostic Techniques</u>
- <u>CSD 521: Disorders of Fluency</u>
- <u>CSD 523: Phonological Disorders</u>





- <u>CSD 526: Neurogenic Disorders of Language</u>
- <u>CSD 531: Special Problems in CD</u>
- <u>CSD 541: Child Lang Development & Assessment</u>
- <u>CSD 551: Clinical Audiology</u>
- CSD 557: Audiology for the SLP
- CSD 560: Manual Communication I
- CSD 562: Manual Communication II
- <u>CSD 575: Audio Instru & Meas</u>
- CSD 591: Clinical Practicum in Audiology
- CSD 592: Cl Sem/Speech-Lang Path
- CSD 593: Clinical Seminar in Audiology
- <u>CSD 601: Directed Study</u>
- CSD 605: Counseling Thry/Prac
- <u>CSD 606: Ethics and Human Subjects Research</u>
- CSD 612: Advanced Clinical Audiology
- CSD 613: Rsch Design & Anal
- <u>CSD 615: Electrophysiologic Evaluation</u>
- <u>CSD 620: Assessment and Treatment of Dysphagia</u>
- <u>CSD 622: Voice and Resonance Disorders</u>
- <u>CSD 624: Craniofacial Anomalies</u>
- <u>CSD 625: Autism and Developmental Disabilities</u>
- CSD 626: Aphasia
- CSD 627: Neurogenic Disorders of Speech
- CSD 630: Cerebral Palsy
- <u>CSD 631: Communication Changes in Aging</u>
- <u>CSD 632: Workshop in Comm Sciences & Disorders</u>
- CSD 642: Lan De Dis School-Age
- CSD 649: Pediatric Audiology
- CSD 651: Aural Rehabilitation
- <u>CSD 653: Hearing Aids</u>
- CSD 654: Adv Amp Theory & Tech
- <u>CSD 657: Industrial Audiology</u>
- <u>CSD 659: Seminar in Audiology</u>
- CSD 670: Cen Aud Proc
- <u>CSD 673: Perception of Speech</u>
- <u>CSD 690: Prof. Ethics, Licensure, and Curr Trends</u>
- <u>CSD 691: Graduate Practicum</u>
- <u>CSD 692: Graduate Practicum</u>
- <u>CSD 693: Graduate Practicum</u>
- <u>CSD 694: Graduate Practicum</u>
- CSD 695: Graduate Practicum
- <u>CSD 697: Thesis</u>

