

**Course Requirements and Registration Priorities
(Undergraduate), Fall 2025**

| # | Abbr | Title | Cr(US) | Cr(ECTS) | PreRequisite | CoRequisite | AntiRequisite | 1st priority registration | 2nd priority registration | 3rd priority registration | 4th priority registration |
|--|----------|--|--------|----------|---|-------------|---------------|---|--|---|---------------------------|
| GSB | | | | | | | | | | | |
| Bachelor of Business Administration | | | | | | | | | | | |
| 1 | BBA 208 | Data Analytics for Business | 3 | 6 | | | | Business Administration (UG) | | | |
| 2 | BBA 210 | Fundamentals of Marketing | 3 | 6 | | | | Business Administration (UG) | | | |
| 3 | BBA 230 | Entrepreneurship | 3 | 6 | | | | Business Administration (UG) | | | |
| GSB | | | | | | | | | | | |
| 4 | BUS 101 | Core Course in Business | 3 | 6 | | | | 2 year UG SOM Medical Sciences, 2 year UG SOM Nursing, 3 year UG SOM, 4 year UG SEDS, 4 year UG SEDS (pending graduation), 4 year UG SMG, 4 year UG SMG (pending graduation), 4 year UG SOM, 4 year UG SSH, 4 year UG SSH (pending graduation), 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), Business Administration (UG) | 3 year UG SEDS, 3 year UG SMG, 3 year UG SSH | 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH | |
| SoM | | | | | | | | | | | |
| Medical Sciences | | | | | | | | | | | |
| 5 | NUSM 101 | Introduction to Medicine | 2 | 4 | | | | 1 year UG SOM A Six-Year Medical Program | | | |
| 6 | NUSM 102 | Biology for Medical students I with Lab | 4 | 8 | | | | 1 year UG SOM A Six-Year Medical Program | | | |
| 7 | NUSM 301 | Introduction to Immunology, Microbiology and Genetics | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 3 year UG SOM Medical Sciences | | | |
| 8 | NUSM 302 | Introduction to Statistics for Evidence-Based Practice | 3 | 6 | MATH 161 Calculus I (118) (C- and above) | | | 3 year UG SOM Medical Sciences | | | |
| 9 | NUSM 303 | Introduction to Anatomy and Histology | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 3 year UG SOM Medical Sciences | | | |

| | | | | | | | | | | | | |
|----|-----------|---|---|----|---|--|--|--------------------------------|--|--|--|--|
| 10 | NUSM 401 | Introduction to Being a Physician | 2 | 4 | NUSM 310 Capstone Project (7138) (C and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 11 | NUSM 402 | Medical Anatomy | 8 | 16 | NUSM 310 Capstone Project (7138) (C and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 12 | NUSM 403 | Human Genetics | 3 | 6 | NUSM 310 Capstone Project (7138) (C and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 13 | NUSM 405 | Fuel Metabolism | 3 | 6 | NUSM 310 Capstone Project (7138) (C and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 14 | NUSM 408 | Pharmacology | 2 | 4 | NUSM 310 Capstone Project (7138) (C and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 15 | NUSM 410 | Basics of Medical Interviewing | 0 | 0 | NUSM 310 Capstone Project (7138) (C- and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 16 | NUSM 411a | Basics of Physical Examination | 0 | 0 | NUSM 310 Capstone Project (7138) (C- and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 17 | NUSM 412 | Evidence-based Medicine I and Biostatistics | 0 | 0 | NUSM 310 Capstone Project (7138) (C- and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 18 | NUSM 413 | English-Russian-Kazakh Medical Terminology | 0 | 0 | NUSM 310 Capstone Project (7138) (C- and above) | | | 4 year UG SOM Medical Sciences | | | | |
| 19 | NUSM 414 | Medical Ethics and Professionalism | 0 | 0 | NUSM 310 Capstone Project (7138) (C- and above) | | | 4 year UG SOM Medical Sciences | | | | |

Nursing

| | | | | | | | | | | | | |
|----|----------|--|---|----|--|--|--|-----------------------|--|--|--|--|
| 20 | NUR 205 | Psychology for the Health Practitioner | 3 | 6 | | | | 3 year UG SOM Nursing | | | | |
| 21 | NUR 221 | Nursing Research: Introduction to Critical Appraisal and Evidence-Based Practice | 3 | 6 | | | | 3 year UG SOM Nursing | | | | |
| 22 | NUR 302 | Physical Assessment Across the Lifespan | 4 | 8 | | | | 1 year UG SOM Nursing | | | | |
| 23 | NUR 303 | Nursing Care of Older Adults | 4 | 8 | | | | 1 year UG SOM Nursing | | | | |
| 24 | NUR 304 | Introduction to Basic Statistics for Evidence Based Practice | 3 | 6 | | | | 1 year UG SOM Nursing | | | | |
| 25 | NUR 308 | Enhanced Communication in Professional Nursing | 4 | 8 | | | | 1 year UG SOM Nursing | | | | |
| 26 | NUR 311C | Obstetric Nursing + Clinical | 5 | 10 | | | | 3 year UG SOM Nursing | | | | |

| | | | | | | | | | | | |
|-----------------------|------------------|--|---|----|---|--|--|------------------------------|--|--|--|
| 27 | NUR 312C | Pediatric Nursing + Clinical: Care of Children and Families | 4 | 8 | | | | 3 year UG SOM Nursing | | | |
| 28 | NUR 401 | Education: Principles and Practice for Teaching in Nursing | 4 | 8 | | | | 2 year UG SOM Nursing | | | |
| 29 | NUR 403 | Data Analytics for Quality Improvement in Healthcare | 3 | 6 | | | | 2 year UG SOM Nursing | | | |
| 30 | NUR 404 | Community and Home Health Nursing | 4 | 8 | | | | 2 year UG SOM Nursing | | | |
| 31 | NUR 406.1 | Medical-Surgical Nursing: Complex Surgical Management | 4 | 8 | | | | 2 year UG SOM Nursing | | | |
| 32 | NUR 411C | Community and Home Health Nursing and Clinical | 4 | 8 | | | | 4 year UG SOM Nursing | | | |
| 33 | NUR 412 | Geriatric Nursing: Nursing Care of the Older Adult | 3 | 6 | | | | 4 year UG SOM Nursing | | | |
| 34 | NUR 413C | Medical Surgical Nursing 3 - Management of the Complex and Critically Ill Patient and Clinical | 7 | 14 | | | | 4 year UG SOM Nursing | | | |
| 35 | NUR 421 | Capstone I: Developing a Project Proposal in Nursing | 3 | 6 | | | | 4 year UG SOM Nursing | | | |
| SMG | | | | | | | | | | | |
| Economics, SMG | | | | | | | | | | | |
| 36 | ECON 220/SMG 200 | Resource Economics | 3 | 6 | MATH 161 Calculus I (118) (C- and above) OR MATH 162 Calculus II (170) (C- and above) | | ECON 201 Intermediate Microeconomics (133) (C- and above) OR ECON 202 Intermediate Macroeconomics (207) (C- and above) | 3 year UG SMG, 4 year UG SMG | 4 year UG SEDS, 4 year UG SSH | | |
| Geosciences | | | | | | | | | | | |
| 37 | GEOL 201 | Mineralogy | 3 | 6 | GEOL 101 Fundamentals of Geology (4774) (C- and above) | | | 2 year UG SMG Geology | 2 year UG SMG Mining Engineering, 3 year UG SMG Geology, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering | | |

| | | | | | | | | | | | |
|----|----------|----------------------------------|---|---|---|--|--|-----------------------|--|--|--|
| 38 | GEOL 202 | Geologic Maps and Cross-Sections | 3 | 6 | GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above) | | | 2 year UG SMG Geology | 2 year UG SMG Mining Engineering | | |
| 39 | GEOL 203 | Sedimentary petrology | 3 | 6 | GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above) | GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above) | | 3 year UG SMG Geology | | | |
| 40 | GEOL 207 | Geomorphology | 3 | 6 | GEOL 101 Fundamentals of Geology (4774) (C- and above) OR GEOL 102 Fundamentals of Geology (4772) (C- and above) | | | 2 year UG SMG Geology | | | |
| 41 | GEOL 302 | Thermodynamics and Geochemistry | 3 | 6 | GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above) | | | 3 year UG SMG Geology | | | |
| 42 | GEOL 303 | Structural Geology and Tectonics | 3 | 6 | (GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)) AND GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above) | | | 3 year UG SMG Geology | 2 year UG SMG Mining Engineering | | |
| 43 | GEOL 305 | Geology of ore deposits | 3 | 6 | GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above) OR GEOL 201 Mineralogy (5122) (D and above) | | | 3 year UG SMG Geology | 2 year UG SMG Mining Engineering, 3 year UG SMG Mining Engineering | | |
| 44 | GEOL 310 | Field Geology 2 | 3 | 6 | GEOL 303 Structural Geology and Tectonics (5874) (D and above) OR GEOL 301 Igneous and metamorphic petrology (5886) (D and above) | | | 4 year UG SMG Geology | 4 year UG SMG Mining Engineering | | |

| | | | | | | | | | | | |
|------------------------------|----------|---|---|---|--|--|--|--|----------------------------------|-------------------------------|--|
| 45 | GEOL 401 | Petroleum Geology and Geochemistry | 3 | 6 | | | | 4 year UG SMG Geology, 4 year UG SMG Petroleum Engineering | | | |
| 46 | GEOL 402 | Water Resource Management | 3 | 6 | | | | 4 year UG SMG Geology | 4 year UG SMG Mining Engineering | 4 year UG SEDS, 4 year UG SSH | |
| 47 | GEOL 404 | Research Project I | 3 | 6 | | | | 4 year UG SMG Geology | | | |
| Mining Engineering | | | | | | | | | | | |
| 48 | MINE 301 | Mine Surveying and Geographic Information Systems | 3 | 6 | | | | 3 year UG SMG Mining Engineering | | | |
| 49 | MINE 302 | Geomechanics | 3 | 6 | | | | 3 year UG SMG Mining Engineering | | | |
| 50 | MINE 401 | Mining Geotechnical Engineering | 3 | 6 | MINE 302 Geomechanics (5878) (C- and above) | | | 4 year UG SMG Mining Engineering | | | |
| 51 | MINE 402 | Mine Planning | 3 | 6 | | | | 4 year UG SMG Mining Engineering | 3 year UG SMG Mining Engineering | | |
| 52 | MINE 403 | Coal Mining | 3 | 6 | | | | 4 year UG SMG Mining Engineering | | | |
| 53 | MINE 405 | Mine Ventilation | 3 | 6 | | | | 4 year UG SMG Mining Engineering | 3 year UG SMG Mining Engineering | | |
| 54 | MINE 407 | Mining and Environment | 3 | 6 | | | | 4 year UG SMG Mining Engineering | | | |
| 55 | MINE 489 | Mine Design Project I | 3 | 6 | | | | 4 year UG SMG Mining Engineering | | | |
| Petroleum Engineering | | | | | | | | | | | |
| 56 | PETE 201 | Fluid Mechanics and Thermodynamics | 3 | 6 | MATH 161 Calculus I (118) (D and above) OR CHEM 101 General Chemistry I (113) (D and above) | | | 2 year UG SMG Mining Engineering, 2 year UG SMG Petroleum Engineering, 4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation) | | | |
| 57 | PETE 301 | Numerical Methods for Petroleum Engineers | 3 | 6 | ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (C- and above) OR ENG 101 Programming for Engineers (4517) (C- and above) | | | 3 year UG SMG Petroleum Engineering, 4 year UG SMG Petroleum Engineering, 5 year UG SMG Petroleum Engineering (pending graduation) | | | |

| | | | | | | | | | | | | |
|----|-----------|-----------------------------------|---|---|---|---|--|--|------------------------|--|--|--|
| | | | | | | | | | | | | |
| 66 | BIOL 101 | Introductory Biology | 3 | 6 | | | BIOL 110 Modern Biology I (1070) (C- and above) | 5 year UG SSH (pending graduation), Anthropology, Business Administration (UG), Chemistry, Economics, History, Mathematics, Nursing, Physics, Political Science and International Relations, SEDS, SMG, Sociology, Undeclared SSH, World Languages, Literature and Culture | | | | |
| 67 | BIOL 105 | General Biology | 3 | 6 | | | | Biological Sciences | Undeclared SSH | | | |
| 68 | BIOL 110 | Modern Biology I | 3 | 6 | | | | 1 year UG SOM Medical Sciences, 2 year UG SSH Biological Sciences, 2 year UG SSH Undeclared | | | | |
| 69 | BIOL 110L | Modern Biology I Laboratory | 1 | 2 | | BIOL 110 Modern Biology I (1070) (C and above) | | 1 year UG SOM Medical Sciences, 2 year UG SSH Biological Sciences, 2 year UG SSH Undeclared | | | | |
| 70 | BIOL 120 | Modern Biology II | 3 | 6 | BIOL 110 Modern Biology I (1070) (C and above) | | | 2 year UG SOM Medical Sciences, Biological Sciences, Undeclared SSH | | | | |
| 71 | BIOL 120L | Modern Biology II Laboratory | 1 | 2 | BIOL 110 Modern Biology I (1070) (C and above) OR BIOL 110L Modern Biology I Laboratory (5448) (C and above) | BIOL 120 Modern Biology II (1195) (C and above) | | 2 year UG SOM Medical Sciences, Biological Sciences, Undeclared SSH | | | | |
| 72 | BIOL 230 | Human Anatomy and Physiology I | 4 | 8 | BIOL 110 Modern Biology I (107) (C and above) OR BIOL 110 Modern Biology I (1070) (C and above) | | | 2 year UG SOM Medical Sciences, Biological Sciences | | | | |
| 73 | BIOL 301 | Molecular Cell Biology | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | | |
| 74 | BIOL 305 | Introduction to Microbiology | 3 | 6 | (BIOL 120 Modern Biology II (1195) (C and above) AND BIOL 120L Modern Biology II Laboratory (5443) (C and above)) OR BIOL 120 Modern Biology II (1195) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | | |

| | | | | | | | | | | | |
|----|-----------|---|---|---|---|--|--|--|-----------------------------------|--|--|
| 75 | BIOL 305L | Introduction to Microbiology Laboratory | 1 | 2 | BIOL 120 Modern Biology II (1195) (C and above) OR BIOL 120L Modern Biology II Laboratory (5443) (C and above) | BIOL 305 Introduction to Microbiology (5789) (C and above) | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 76 | BIOL 310 | Immunology | 3 | 6 | BIOL 301 Molecular Biology of Cell with Lab (1197) (C and above) OR BIOL 305 Introduction to Microbiology with Lab (1642) (C and above) OR BIOL 301 Molecular Cell Biology (5809) (C and above) OR BIOL 305 Introduction to Microbiology (5789) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 77 | BIOL 320 | Developmental Biology | 3 | 6 | BIOL 230 Human Anatomy and Physiology I (72) (C and above) OR BIOL 230 Human Anatomy and Physiology I (6217) (C and above) | | | 2 year UG SOM Medical Sciences, 4 year UG SSH Biological Sciences | 3 year UG SSH Biological Sciences | | |
| 78 | BIOL 321 | Bioethics | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 79 | BIOL 340 | Introduction to Bioinformatics with Lab | 4 | 8 | (BIOL 120 Modern Biology II (1195) (C and above) OR (BIOL 120 Modern Biology II (1195) (C and above)) AND BIOL 120L Modern Biology II Laboratory (5443) (C and above))) AND MATH 310 Applied Statistical Methods (82) (C and above) | | | 2 year UG SOM Medical Sciences, Biological Sciences | | | |
| 80 | BIOL 341 | Biochemistry I | 3 | 6 | CHEM 211 Organic Chemistry I (154) (C and above) | | | 2 year UG SOM Medical Sciences, Biological Sciences | | | |
| 81 | BIOL 355 | Critical Research Reasoning | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences, Medical Sciences | Biological Sciences | | |

| | | | | | | | | | | | |
|----|-----------|---|---|---|---|---|--|--|---------------------|--|--|
| | | | | | | | | | | | |
| 82 | BIOL 363 | Structural Bioinformatics | 4 | 8 | BIOL 341 Biochemistry I (2002) (C and above) OR CHEM 341 Biochemistry I (1058) (C and above) OR CSCI 235 Programming Languages (638) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 83 | BIOL 370 | Genetics | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 84 | BIOL 380 | Biology of Behavior | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 2 year UG SOM Medical Sciences, 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 85 | BIOL 385 | Cell signaling: principles and mechanisms | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) | | | 2 year UG SOM Medical Sciences, Biological Sciences | | | |
| 86 | BIOL 450L | Food Microbiology Lab | 1 | 2 | BIOL 305 Introduction to Microbiology with Lab (1642) (C and above) OR BIOL 305 Introduction to Microbiology (5789) (C and above) | BIOL 450 Food Microbiology (4609) (C and above) | | | | | |
| 87 | BIOL 452 | Biology of Cancer | 3 | 6 | BIOL 231 Human Anatomy and Physiology II (479) (C and above) OR BIOL 301 Molecular Biology of Cell with Lab (1197) (C and above) OR BIOL 331 Human Anatomy and Physiology II (6218) (C and above) OR BIOL 301 Molecular Cell Biology (5809) (C and above) | | | 3 year UG SSH Biological Sciences, 4 year UG SSH Biological Sciences | Biological Sciences | | |
| 88 | BIOL 456 | Biology Research Design | 3 | 6 | BIOL 355 Critical Research Reasoning (1000) (C and above) | | | 4 year UG SSH Biological Sciences | Biological Sciences | | |

| | | | | | | | | | | | |
|------------------|-----------|---------------------------|---|----|---|--|--|--|---------------------------------------|--|--|
| 89 | BIOL 460 | Human Parasitology | 3 | 6 | BIOL 305 Introduction to Microbiology with Lab (1642) (C and above) OR BIOL 305 Introduction to Microbiology (5789) (C and above) | | | 2 year UG SOM Medical Sciences, Biological Sciences | | | |
| 90 | BIOL 470 | Advanced Cell Biology | 3 | 6 | BIOL 120 Modern Biology II (1195) (C and above) AND BIOL 110L Modern Biology I Laboratory (5448) (C and above) AND (BIOL 341 Biochemistry I (2002) (C and above) OR CHEM 341 Biochemistry I (1058) (C and above)) | | | 4 year UG SSH Biological Sciences | Biological Sciences, Medical Sciences | | |
| 91 | BIOL 490 | Honors Thesis Research | 3 | 6 | BIOL 355 Critical Research Reasoning (1000) (B and above) | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 92 | BIOL 491 | Honors Thesis | 9 | 18 | BIOL 490 Honors Thesis Research (1581) (C and above) | | | | | | |
| Chemistry | | | | | | | | | | | |
| 93 | CHEM 100 | Introduction to Chemistry | 3 | 6 | | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SSH (pending graduation) | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 94 | CHEM 101 | General Chemistry I | 3 | 6 | | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 95 | CHEM 101L | General Chemistry I lab | 1 | 2 | CHEM 101 General Chemistry I (113) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |

| | | | | | | | | | | | |
|-----|-----------|--|---|---|---|--|--|--|--------------------------|----------------|--|
| 96 | CHEM 104 | Introduction to Physical and Chemical Sciences | 3 | 6 | | | CHEM 091 Survey of Physical Science (149) (D+ and above) | Anthropology, Economics, History, Nursing, Political Science and International Relations, Sociology, Undeclared SSH, World Languages, Literature and Culture | SSH | SEDS, SMG, SoM | |
| 97 | CHEM 211 | Organic Chemistry I | 3 | 6 | CHEM 102 General Chemistry II (232) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 98 | CHEM 211L | Organic Chemistry I Lab | 1 | 2 | CHEM 101L General Chemistry I lab (179) (C and above) | CHEM 211 Organic Chemistry I (154) (C and above) | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 99 | CHEM 212 | Organic Chemistry II | 3 | 6 | CHEM 211 Organic Chemistry I (154) (C and above) OR CHEM 191 Chemistry I for Engineers (1908) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 100 | CHEM 212L | Organic Chemistry II Lab | 1 | 2 | CHEM 211L Organic Chemistry I Lab (156) (C and above) | CHEM 212 Organic Chemistry II (443) (C and above) OR CHEM 292 Organic Chemistry for Biologists II (1901) (C and above) | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 101 | CHEM 220 | Quantitative Chemical Analysis | 3 | 6 | CHEM 102 General Chemistry II (232) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 102 | CHEM 220L | Quantitative Chemical Analysis Lab | 1 | 2 | CHEM 101L General Chemistry I lab (179) (C and above) | CHEM 220 Quantitative Chemical Analysis (555) (C and above) | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 103 | CHEM 331 | Physical Chemistry I | 3 | 6 | CHEM 220 Quantitative Chemical Analysis (555) (C and above) AND PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |

| | | | | | | | | | | | |
|-----|-----------|---|---|---|--|---|--|-----------|---|------------------------|--|
| 104 | CHEM 331L | Physical Chemistry Lab | 1 | 2 | | CHEM 331 Physical Chemistry I (634) (C and above) | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 105 | CHEM 341 | Biochemistry I | 3 | 6 | CHEM 211 Organic Chemistry I (154) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 106 | CHEM 350 | Advanced Inorganic Chemistry | 3 | 6 | CHEM 212 Organic Chemistry II (443) (C and above) AND CHEM 212L Organic Chemistry II Lab (444) (C and above) AND CHEM 250 Descriptive Inorganic Chemistry (445) (C and above) | | | Chemistry | Biological Sciences | SEDS, SMG, SSH, SoM | |
| 107 | CHEM 350L | Advanced Inorganic Chemistry Laboratory | 1 | 2 | CHEM 212 Organic Chemistry II (443) (C and above) AND CHEM 212L Organic Chemistry II Lab (444) (C and above) AND CHEM 250 Descriptive Inorganic Chemistry (445) (C and above) | CHEM 350 Advanced Inorganic Chemistry (1905) (C and above) | | Chemistry | Biological Sciences | SEDS, SMG, SSH, SoM | |
| 108 | CHEM 410 | Structural Spectroscopy | 4 | 8 | CHEM 212 Organic Chemistry II (443) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 109 | CHEM 432 | Introduction to Cheminformatics and Computer aided drug design | 3 | 6 | CHEM 341 Biochemistry I (1058) (C- and above) AND (CSCI 111 Web Programming and Problem Solving (110) (C- and above) OR CSCI 150 Fundamentals of Programming (1501) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above)) | | | Chemistry | Biological Sciences, SEDS, SMG, SSH | SoM | |
| 110 | CHEM 440 | Pharmaceutical and Medicinal Chemistry | 3 | 6 | CHEM 211 Organic Chemistry I (154) (C and above) | | | Chemistry | Biological Sciences, SoM | SEDS, SMG, SSH | |
| 111 | CHEM 471 | Environmental Chemistry | 3 | 6 | CHEM 102 General Chemistry II (232) (C and above) | | | Chemistry | SEDS, SMG, SSH, SoM | | |
| 112 | CHEM 488 | Directed Research I | 3 | 6 | CHEM 380 Research Methods (636) (C and above) | | | Chemistry | | | |

Communication and Composition

| | | | | | | | | | | | |
|-----|---------|--|---|---|--|--|--|---|--|--|--|
| 113 | WCS 101 | Communication and Society | 3 | 6 | | | | 1 year UG SEDS, 1 year UG SMG, 1 year UG SSH, SoM | 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH | | |
| 114 | WCS 150 | Rhetoric and Composition | 3 | 6 | | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 115 | WCS 200 | Introduction to Public Speaking | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | | 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM | 3 year UG SEDS, 3 year UG SMG, 3 year UG SSH | | |
| 116 | WCS 201 | Introduction to Journalism | 3 | 6 | WCS 101 Communication and Society (199) (C-and above) OR WCS 150 Rhetoric and Composition (2183) (C-and above) | | | 2 year UG GSB Business Administration (UG), 2 year UG SSH | | | |
| 117 | WCS 203 | Interpersonal Communication | 3 | 6 | WCS 101 Communication and Society (199) (C-and above) OR WCS 200 Introduction to Public Speaking (175) (C-and above) | | | 2 year UG GSB Business Administration (UG), 2 year UG SSH | 3 year UG SSH, 4 year UG SEDS | | |
| 118 | WCS 210 | Technical and Professional Writing | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | WCS 220 Science Writing (5686) (C-and above) | Chemical and Materials Engineering, Chemistry, Civil and Environmental Engineering, Electrical and Computer Engineering, Geology, Mechanical and Aerospace Engineering, Mining Engineering, Petroleum Engineering, Robotics Engineering | SEDS | Business Administration (UG), SSH, SoM | |
| 119 | WCS 230 | Say What you Mean: Clarity, Precision, and Style in Academic Writing | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | | 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM | 3 year UG SEDS, 3 year UG SMG, 3 year UG SSH | | |
| 120 | WCS 240 | Writing for Digital Media | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | | 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM | 3 year UG SEDS, 3 year UG SMG, 3 year UG SSH | | |
| 121 | WCS 250 | Advanced Rhetoric and Composition | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | | Business Administration (UG), SEDS, SSH, SoM | | | |

| | | | | | | | | | | | | |
|---|-----------------|--|---|---|--|--|--|---|--|--|--|--|
| 122 | WCS 270 | Academic and Professional Presentations | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | WCS 210 Technical and Professional Writing (4881) (C- and above) | 2 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM | 3 year UG SEDS, 3 year UG SMG, 3 year UG SSH | | | |
| 123 | WCS 300 | Internship: Undergraduate Speaker Consultant I | 3 | 6 | WCS 200 Introduction to Public Speaking (175) (A- and above) OR WCS 270 Academic and Professional Presentations (8409) (A-and above) | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 124 | WCS 301 | Internship: Undergraduate Speaker Consultant II | 3 | 6 | WCS 300 Internship: Undergraduate Speaker Consultant I (8538) (P) | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 125 | WCS 390 | Writing Fellows I - Composition and Collaboration in Theory and Practice | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (B and above) AND (WCS 220 Science Writing (5686) (B+ and above) OR WCS 230 Say What you Mean: Clarity, Precision, and Style in Academic Writing (3026) (B+ and above) OR WCS 250 Advanced Rhetoric and Composition (3027) (B+ and above)) | | | 3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH | | | | |
| 126 | WCS 393 | Internship: Undergraduate Writing Tutor I | 3 | 6 | WCS 392 Writing Fellows III - Research & Practice in Writing & Peer Mentorship (4472) (B and above) | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | | |
| 127 | WCS 394 | Internship: Undergraduate Writing Tutor II | 3 | 6 | WCS 393 Internship: Undergraduate Writing Tutor I (7346) (P) | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | | |
| Communication and Composition, Languages, Literature and Linguistics | | | | | | | | | | | | |
| 128 | WLL 235/WCS 260 | Creative Writing: Introduction to Fiction Writing I | 3 | 6 | WCS 150 Rhetoric and Composition (2183) (C-and above) | | | 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH, SoM | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH | | |
| 129 | WLL 462/WCS 462 | Creative Nonfiction | 3 | 6 | WCS 260/WLL 235 Creative Writing: Introduction to Fiction Writing I (4000) (C and above) | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | | |

| | | | | | | | | | | | |
|------------------|-----------------|----------------------------------|---|---|--|--|--|--|---|--|--|
| 130 | WLL 465/WCS 465 | Creative Writing: Autofiction | 3 | 6 | WCS 260/WLL 235 Creative Writing: Introduction to Fiction Writing I (4000) (C- and above) | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| Economics | | | | | | | | | | | |
| 131 | ECON 101 | Introduction to Microeconomics | 3 | 6 | | | | 5 year UG SSH (pending graduation), Business Administration (UG), Undeclared SSH | SSH | SEDS, SMG, SoM | |
| 132 | ECON 102 | Introduction to Macroeconomics | 3 | 6 | | | | 5 year UG SSH (pending graduation), Undeclared SSH | Business Administration (UG), SSH | SEDS, SMG, SoM | |
| 133 | ECON 120 | Managerial Economics | 3 | 6 | | | | SEDS | Business Administration (UG), SMG, SSH, SoM | | |
| 134 | ECON 201 | Intermediate Microeconomics | 3 | 6 | ECON 101 Introduction to Microeconomics (379) (B- and above) AND (MATH 161 Calculus I (118) (B- and above) OR MATH 162 Calculus II (170) (B- and above)) | | | Economics | 2 year UG SSH Undeclared | SSH | |
| 135 | ECON 211 | Economic Statistics | 3 | 6 | ECON 101 Introduction to Microeconomics (379) (C and above) OR ECON 102 Introduction to Macroeconomics (503) (C and above) | | | Economics | 2 year UG SSH Undeclared | SSH | |
| 136 | ECON 300 | Research Assistance in Economics | 1 | 2 | ECON 101 Introduction to Microeconomics (379) (C- and above) AND ECON 102 Introduction to Macroeconomics (503) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR CSCI 235 Programming Languages (638) (C- and above) OR CSCI 390 Artificial Intelligence (643) (C- and above) OR MATH 321 Probability (482) (C- and above) OR MATH 322 Mathematical Statistics (1165) (C- and above) | | | Instructor's Permission Required. Registration through Add Course form only! | | | |

| | | | | | | | | | | | |
|-----|----------|--|---|---|--|---|--|---|-------------------------|-----|--|
| | | | | | | | | | | | |
| 137 | ECON 301 | Econometrics I | 3 | 6 | ECON 211 Economic Statistics (2280) (C- and above) OR (MATH 321 Probability (482) (C- and above) AND (MATH 322 Mathematical Statistics (1165) (C- and above) OR MATH 310 Applied Statistical Methods (82) (C- and above))) | | | Economics | | SSH | |
| 138 | ECON 302 | Game Theory and Economic Analysis | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) | | PLS 315 Political Game Theory (704) (C- and above) | 3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation) | 4 year UG SSH Economics | SSH | |
| 139 | ECON 305 | Advanced Microeconomics | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) | ECON 211 Economic Statistics (2280) (D and above) | ECON 398 General Special Topics in Economics (2184) (C- and above) | 3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation) | 4 year UG SSH Economics | SSH | |
| 140 | ECON 325 | International Trade | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) | | | 3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation) | 4 year UG SSH Economics | SSH | |
| 141 | ECON 326 | The Economics of Financial Markets | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) | | | 3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation) | 4 year UG SSH Economics | SSH | |
| 142 | ECON 333 | Political Economy | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) | | | 3 year UG SSH Economics, 5 year UG SSH (pending graduation), 6 year UG SSH (pending graduation) | 4 year UG SSH Economics | SSH | |
| 143 | ECON 400 | Research Assistance in Economics 2 | 1 | 2 | ECON 300 Research Assistance in Economics (3080) (P) | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 144 | ECON 403 | Introduction to Contract Theory and Auctions | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) AND ECON 301 Econometrics I (664) (C- and above) | | | Economics | | SSH | |

| | | | | | | | | | | | | |
|--|----------|--|---|---|--|--|--|---|--|---|--|--|
| | | | | | | | | | | | | |
| 145 | ECON 414 | Advanced Monetary Policy | 3 | 6 | (ECON 202 Intermediate Macroeconomics (207) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)) OR (ECON 202 Intermediate Macroeconomics (207) (C- and above) AND MATH 322 Mathematical Statistics (1165) (C- and above)) | | | Economics | | SSH | | |
| 146 | ECON 418 | Corporate Finance and Governance | 3 | 6 | ECON 201 Intermediate Microeconomics (133) (C- and above) AND (ECON 301 Econometrics I (664) (C- and above) OR MATH 322 Mathematical Statistics (1165) (C- and above)) | | | Economics | | SSH | | |
| 147 | ECON 433 | Econometrics II Panel Data | 3 | 6 | ECON 301 Econometrics I (664) (C- and above) | | | Economics | | SSH | | |
| 148 | ECON 449 | Quantitative Macroeconomics | 3 | 6 | ECON 202 Intermediate Macroeconomics (207) (C- and above) AND ECON 301 Econometrics I (664) (C- and above) | | | Economics | | SSH | | |
| History, Philosophy and Religious Studies | | | | | | | | | | | | |
| 149 | HST 100 | History of Kazakhstan | 3 | 6 | | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation) | 1 year UG GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SMG, 1 year UG SSH, 2 year UG SEDS, 2 year UG SMG, 2 year UG SOM, 2 year UG SSH, 3 year UG SEDS, 3 year UG SMG, 3 year UG SOM, 3 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 150 | HST 104 | Central Asian History II (1700 - 1991) | 3 | 6 | | | | 1 year UG SSH Undeclared, History | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | | | |
|-----|----------|---|---|---|--------------------------------------|--|--|---|---------------------------------|--|--|
| 151 | HST 121 | World History I (to 1500) | 3 | 6 | | | | 1 year UG SSH Undeclared, History | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 152 | HST 124 | Introduction to the History of Medicine | 3 | 6 | | | | 1 year UG SSH Undeclared, History | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 153 | HST 212 | Coins, cotton, and cocoons: Global trade and Eurasian materiality (ca. 1500-1850) | 3 | 6 | Subject "HST" BETWEEN 100 and 199 | | | 1 year UG SSH Undeclared, History | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 154 | HST 435 | Stalinist Central Asia | 3 | 6 | | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM, 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), History | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 155 | HST 498 | Directed Reading | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 156 | PHIL 131 | Introduction to Contemporary Political Philosophy | 3 | 6 | | | | 1 year UG SSH Undeclared | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 157 | PHIL 160 | Philosophy of Religion | 3 | 6 | | | | 1 year UG SSH Undeclared | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | |

| | | | | | | | | | | | | |
|-----|----------|--------------------------------|---|---|--|--|--|---|---|---|--|--|
| | | | | | | | | | | | | |
| 158 | PHIL 210 | Ethics | 3 | 6 | | | | 3 year UG SOM Medical Sciences, 3 year UG SSH, 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation) | 1 year UG GSB Business Administration (UG), 2 year UG SEDS, 2 year UG SMG, 2 year UG SSH Biological Sciences, 3 year UG SEDS, 3 year UG SMG | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 159 | PHIL 232 | Philosophy of Law | 3 | 6 | | | | 1 year UG SSH Undeclared | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 160 | PHIL 362 | Philosophy of Mind | 3 | 6 | | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM, 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), History | SSH | Business Administration (UG), SEDS, SMG, SoM | | |
| 161 | PHIL 383 | Kant's Critique of Pure Reason | 3 | 6 | | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM, 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation) | SSH | Business Administration (UG), SEDS, SMG, SoM | | |

| | | | | | | | | | | | | |
|--|---------------------------------|--|---|---|---|--|---|--|---|--|--|--|
| | | | | | | | | | | | | |
| 162 | PHIL 399 | Special Topics in Philosophy | 3 | 6 | PHIL 101 Introduction to Philosophy (242) (C- and above) OR PHIL 210 Ethics (459) (C- and above) OR PHIL 320 Truth, Knowledge and Belief (470) (C- and above) OR PHIL 230/PLS 230 Religion and Democracy (671) (C- and above) | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM, 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation) | SSH | Business Administration (UG), SEDS, SMG, SoM | | |
| 163 | REL 212 | Buddhist Religious Traditions | 3 | 6 | | | 1 year UG SSH Undeclared, History | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| History, Philosophy and Religious Studies, History, Philosophy and Religious Studies | | | | | | | | | | | | |
| 164 | HST 110/REL 110 | Introduction to World Religions | 3 | 6 | | | 1 year UG SSH Undeclared, History | 1 year UG SSH, 2 year UG SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies | | | | | | | | | | | | |
| 165 | HST 271/TUR 271 | History of the Ottoman Empire | 3 | 6 | HST 100 History of Kazakhstan (172) (C- and above) | | History | SSH | Business Administration (UG), SEDS, SMG, SoM | | | |
| History, Philosophy and Religious Studies, Kazakh Language and Turkic Studies, Sociology and Anthropology, Sociology and Anthropology | | | | | | | | | | | | |
| 166 | HST 375/TUR 375/ANT 375/SOC 375 | Inner Asian Frontiers of China: A Cultural Perspective | 3 | 6 | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, History, Sociology | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| History, Philosophy and Religious Studies, Languages, Literature and Linguistics | | | | | | | | | | | | |
| 167 | HST 274/WLL 274 | Texts and Contexts | 3 | 6 | | | History | World Languages, Literature and Culture | SSH | | | |

| | | | | | | | | | | | |
|-----|------------------------|------------------------|---|---|--|--|--|---|-----|--|--|
| 168 | WLL 377/PHIL 377 | Philosophy and Tragedy | 3 | 6 | | | | 4 year UG SEDS, 4 year UG SMG, 4 year UG SOM, 4 year UG SSH, 5 year UG SEDS (pending graduation), 5 year UG SMG (pending graduation), 5 year UG SOM, 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SMG (pending graduation), 6 year UG SOM (pending graduation), 6 year UG SSH (pending graduation), World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
|-----|------------------------|------------------------|---|---|--|--|--|---|-----|--|--|

Kazakh Language and Turkic Studies

| | | | | | | | | | | | |
|-----|---------|--------------------------------|---|---|---|--|--|---|---------------------|--|--|
| 169 | KAZ 001 | Kazakh Language Placement Test | 0 | 0 | | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 170 | KAZ 201 | Academic Kazakh I | 3 | 6 | KAZ 150 Basic Kazakh (1215) (C- and above) OR KLL "[B1.2] Intermediate" | | | 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, Business Administration (UG) | SEDS, SMG, SSH, SoM | | |
| 171 | KAZ 202 | Academic Kazakh II | 3 | 6 | KAZ 201 Academic Kazakh I (4561) (C- and above) OR KLL "[B2.2] Upper-Interm." | | | 1 year UG SEDS, 1 year UG SMG, 1 year UG SOM, 1 year UG SSH, Business Administration (UG) | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|---------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 172 | KAZ 313 | Kazakh for Business | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 173 | KAZ 349 | Kazakh Mythology | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|-------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 174 | KAZ 350 | Kazakh Literature | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|----------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 175 | KAZ 351 | Kazakh Short Stories | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|----------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 176 | KAZ 356 | Kazakh Music History | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|---------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 177 | KAZ 357 | Literature of Alash | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|----------------------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 178 | KAZ 359 | Professional Kazakh for Medicine | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|----------------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 179 | KAZ 363 | Language and Globalization | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|-------------------------------|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 180 | KAZ 366 | Kazakh Language for Engineers | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|---|---|---|---|---|---------------------|--|--|
| | | | | | | | | | |
| 181 | KAZ 368 | Onomastics: History and Function of Names | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 1 year UG SOM Medical Sciences, 2 year UG GSB Business Administration (UG), 2 year UG SMG Geology, 2 year UG SMG Mining Engineering, 2 year UG SSH Biological Sciences, 2 year UG SSH Mathematics, 3 year UG SEDS Computer Science, 3 year UG SEDS Electrical and Computer Engineering, 3 year UG SEDS Robotics Engineering, 3 year UG SSH Anthropology, 3 year UG SSH Chemistry, 3 year UG SSH Economics, 3 year UG SSH History and Culture, 3 year UG SSH Physics, 3 year UG SSH Political Sciences and International Relations, 3 year UG SSH Sociology, 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SSH Physics | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | | | |
|-----|---------|--------------------------------|---|---|---|--|--|--|---------------------|--|--|
| 182 | KAZ 371 | Contemporary Kazakh Literature | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | | | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |
| 183 | KAZ 372 | Language and ethnicity | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | | | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | | | |
|-----|---------|--------------------|---|---|---|--|--|--|---------------------|--|--|
| 184 | KAZ 373 | Kazakh Terminology | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | | | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |
| 185 | KAZ 374 | Kazakh Diplomacy | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | | | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|--|---|---|---|--|---------------------|--|--|
| | | | | | | | | | |
| 186 | KAZ 376 | Language and Culture | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |
| 187 | KAZ 377 | Intercultural Communication through Film | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | |
|-----|---------|---|---|---|---|--|---------------------|--|--|
| | | | | | | | | | |
| 188 | KAZ 378 | Kazakh for Social Science | 3 | 6 | KAZ 202 Academic Kazakh II (4562) (C- and above) OR KLL "[C1.1] Advanced" | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |
| 189 | KAZ 410 | Kazakh literature of the XV-XIX centuries | 3 | 6 | Subject "KAZ" BETWEEN 300 and 399 OR Subject "KAZ" BETWEEN 300 and 399 | 2 year UG SOM Medical Sciences, 4 year UG SEDS Computer Science, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Robotics Engineering, 4 year UG SMG Geology, 4 year UG SMG Mining Engineering, 4 year UG SSH Anthropology, 4 year UG SSH Biological Sciences, 4 year UG SSH Chemistry, 4 year UG SSH Economics, 4 year UG SSH History and Culture, 4 year UG SSH Mathematics, 4 year UG SSH Political Sciences and International Relations, 4 year UG SSH Sociology, 4 year UG SSH World Languages, Literatures and Cultures | SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | | | | |
|--|------------------|---|---|---|--|--|--|--|---|---|--|--|
| 190 | KFL 101 | Elementary Kazakh as a Foreign Language I | 4 | 8 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 191 | TUR 230 | Literatures of Central Asia | 3 | 6 | | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | | |
| 192 | TUR 231 | Istanbul in Literature and Culture | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 193 | TUR 411 | Advanced Readings in Turkish Literature | 3 | 6 | | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | | |
| 194 | TUR 451 | The Turkish Novel | 3 | 6 | | | | | | | | |
| Kazakh Language and Turkic Studies, Languages, Literature and Linguistics | | | | | | | | | | | | |
| 195 | TUR 280/LING 280 | Introduction to Turkic Historical and Comparative Linguistics | 3 | 6 | | | | Business Administration (UG), SEDS, SMG, SSH, SoM | | | | |

| | | | | | | | | | | | |
|-----|------------------------|---|---|---|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| 196 | TUR 480/LING 480 | Selective reading of historical Turkic literature | 3 | 6 | LING 131 Introduction to Linguistics (1394) (C and above) OR LING 130 Introduction to Language and Communication (4014) (C and above) OR LING 140 Language Variation and Change: the Story of English (4835) (C and above) OR LING 240 Introduction to Sociolinguistics (6838) (C and above) OR LING 270 Languages of Eurasia (2485) (C and above) OR LING 273 Survey of Research Methods in Linguistics (2158) (C and above) OR LING 277 Language Diversity and Language Universals (3834) (C and above) OR LING 278 Sounds of the World's Languages (3850) (C and above) OR LING 280/TUR 280 Introduction to Turkic Historical and Comparative Linguistics (3175) (C and above) OR LING 375 The Art and Science of Analyzing Languages: Morphosyntax of the World's Languages (6237) (C and above) OR LING 374 Language Contact in Central Asia (3047) (C and above) OR LING 470 Multilingualism and Language Contact (3339) (C and above) | | | | | | |

Languages, Literature and Linguistics

| | | | | | | | | | | | |
|-----|---------|----------------------|---|---|--|--|--|--|--|---------------------------------|--|
| 197 | CHN 101 | Beginning Mandarin I | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
|-----|---------|----------------------|---|---|--|--|--|--|--|---------------------------------|--|

| | | | | | | | | | | | |
|-----|----------|----------------------------------|---|---|---|--|--|---|---|---|--|
| 198 | CHN 202 | Intermediate Mandarin II | 4 | 8 | CHN 201 Intermediate Mandarin I (2181) (C and above) | | | SSH | Business Administration (UG), SEDS, SMG, SoM | | |
| 199 | DUT 101 | Beginning Dutch I | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
| 200 | DUT 102 | Beginning Dutch II | 4 | 8 | DUT 101 Beginning Dutch I (7642) (C- and above) | | | SSH | Business Administration (UG), SEDS, SMG, SoM | | |
| 201 | GER 101 | Beginning German | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
| 202 | GER 201 | Intermediate German I | 4 | 8 | GER 102 Beginning German II (3335) (C- and above) | | | SSH | Business Administration (UG), SEDS, SMG, SoM | | |
| 203 | KOR 101 | Beginning Korean I | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
| 204 | KOR 201 | Intermediate Korean I | 4 | 8 | KOR 102 Beginning Korean II (4791) (C- and above) | | | SSH | SEDS, SMG, SoM | | |
| 205 | LING 131 | Introduction to Linguistics | 3 | 6 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH | 1 year UG GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SOM, 2 year UG SMG, 2 year UG SSH Undeclared, World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 206 | LING 240 | Introduction to Sociolinguistics | 3 | 6 | LING 130 Introduction to Language and Communication (4014) (C- and above) OR LING 131 Introduction to Linguistics (1394) (C- and above) | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |

| | | | | | | | | | | | |
|-----|----------|---|---|---|--|--|--|---|---|---|--|
| 207 | LING 270 | Languages of Eurasia | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 208 | LING 273 | Survey of Research Methods in Linguistics | 3 | 6 | LING 131 Introduction to Linguistics (1394) (C-and above) | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 209 | LING 277 | Language Diversity and Language Universals | 3 | 6 | LING 131 Introduction to Linguistics (1394) (C and above) | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 210 | LING 278 | Sounds of the World's Languages | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 211 | LING 350 | Introduction to Generative Syntax | 3 | 6 | LING 131 Introduction to Linguistics (1394) (C and above) | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 212 | LING 371 | Practicum in Teaching Foreign Languages | 2 | 4 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 213 | LING 431 | Statistics and computational methods in Linguistics | 3 | 6 | LING 131 Introduction to Linguistics (1394) (C-and above) AND Subject "LING" BETWEEN 200 and 299 | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 214 | LING 479 | Tense, Aspect, Modality and Evidentiality | 3 | 6 | LING 273 Survey of Research Methods in Linguistics (2158) (C-and above) AND (LING 375 The Art and Science of Analyzing Languages: Morphosyntax of the World's Languages (6237) (C- and above) OR LING 377 Historical Linguistics (7972) (C-and above) OR LING 461 Experimental semantics (7196) (C-and above) OR LING 473 Advanced Empirical Methods in Linguistics (6244) (C- and above)) | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 215 | PER 101 | Beginning Persian I | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |

| | | | | | | | | | | | |
|-----|---------|--|---|---|---|--|--|---|---|---|--|
| 216 | PER 102 | Beginning Persian II | 4 | 8 | PER 101 Beginning Persian I (4474) (C- and above) | | | SSH | Business Administration (UG), SEDS, SMG, SoM | | |
| 217 | POL 101 | Beginning Polish | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
| 218 | POL 102 | Beginning Polish II | 4 | 8 | POL 101 Beginning Polish (7641) (C- and above) | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
| 219 | SPA 101 | Beginning Spanish I | 4 | 8 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures | 3 year UG SSH World Languages, Literatures and Cultures | 2 year UG SSH, 3 year UG SSH | |
| 220 | SPA 201 | Intermediate Spanish I | 4 | 8 | SPA 102 Beginning Spanish II (1128) (C- and above) | | | SSH | SEDS, SMG, SoM | | |
| 221 | SPA 314 | Advanced Spanish Grammar and Composition | 3 | 6 | SPA 202 Intermediate Spanish II (1842) (C- and above) | | | SSH | SEDS, SMG, SoM | | |
| 222 | WLL 110 | Introduction to Literary Studies | 3 | 6 | | | | 1 year UG SSH Undeclared, 2 year UG SSH World Languages, Literatures and Cultures, Undeclared SSH | 1 year UG GSB Business Administration (UG), 1 year UG SEDS, 1 year UG SOM, 2 year UG SMG, 2 year UG SSH Undeclared, World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 223 | WLL 201 | World Literature I | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 224 | WLL 209 | Introduction to Translation Studies | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 225 | WLL 218 | Renaissance in Italy and Beyond | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |

| | | | | | | | | | | | |
|-----|---------|---|---|---|-----------------------------------|--|--|--|---|---|--|
| 226 | WLL 244 | Survey of Nineteenth-Century Russian Literature | 3 | 6 | | | | 2 year UG SSH World Languages, Literatures and Cultures | World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 227 | WLL 333 | Literary Modernism: Writing the Futility and Anarchy of Contemporary History | 3 | 6 | Subject "WLL" BETWEEN 200 and 299 | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 228 | WLL 340 | The image of the East in Russophone literature and culture: genesis and meaning | 3 | 6 | | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 229 | WLL 400 | Research Assistance in Linguistics and Literature | 1 | 2 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 230 | WLL 410 | Literary Theory | 3 | 6 | | | | World Languages, Literature and Culture | SSH | Business Administration (UG), SEDS, SMG, SoM | |
| 231 | WLL 498 | Languages, Linguistics, and Literatures Capstone I | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |

Languages, Literature and Linguistics, Sociology and Anthropology

| | | | | | | | | | | | | |
|-----|-----------------|---|---|---|---|--|--|--|--|---|--|--|
| 232 | WLL 171/ANT 175 | Introduction to Linguistic Anthropology | 3 | 6 | | | ANT 277/WLL 271 Language and Society (1027) (C- and above) | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Undeclared SEDS, Undeclared SMG, Undeclared SSH | 2 year UG SSH, 3 year UG SSH Biological Sciences, SoM, Sociology | Business Administration (UG), SEDS, SMG, SSH | | |
| 233 | WLL 385/ANT 385 | Postcolonial Theory and its Applications in Eurasia | 3 | 6 | ANT 110 Introduction to Sociocultural Anthropology (501) (C- and above) OR SOC 101 Introduction to Sociology (508) (C- and above) OR WLL 121 Introduction to Cultural Studies (243) (C- and above) OR WLL 102 /PHIL 102 Language, Experience, Culture (2481) (C- and above) | | | Anthropology | Sociology, World Languages, Literature and Culture | Business Administration (UG), SEDS, SMG, SSH, SoM | | |

Mathematics

| | | | | | | | | | | | |
|-----|----------|--|---|---|---|--|---|---|--|---|--|
| 234 | MATH 161 | Calculus I | 4 | 8 | | | | Biological Sciences, Business Administration (UG), Chemistry, Mathematics, Physics, SEDS, SMG | SSH, SoM | | |
| 235 | MATH 162 | Calculus II | 4 | 8 | MATH 161 Calculus I (118) (C and above) | | | 5 year UG SSH (pending graduation), Chemistry, Mathematics, Physics, SEDS, SMG | Undeclared SSH | Business Administration (UG), SSH, SoM | |
| 236 | MATH 251 | Discrete Mathematics | 3 | 6 | MATH 161 Calculus I (118) (C and above) | | | Computer Science, Mathematics | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 237 | MATH 263 | Calculus III | 4 | 8 | MATH 162 Calculus II (170) (C and above) | | | Mathematics, Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 238 | MATH 273 | Linear Algebra with Applications | 4 | 8 | MATH 161 Calculus I (118) (C and above) | MATH 162 Calculus II (170) (C and above) | | Computer Science, Mathematics, Physics, Robotics Engineering, Robotics and Mechatronics | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 239 | MATH 274 | Introduction to Differential Equations | 3 | 6 | MATH 162 Calculus II (170) (C and above) | | | Mathematics, Physics | Chemistry, Robotics Engineering, Robotics and Mechatronics | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 240 | MATH 301 | Introduction to Number Theory | 3 | 6 | MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 251 Discrete Mathematics (85) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 241 | MATH 302 | Abstract Algebra I | 3 | 6 | MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 251 Discrete Mathematics (85) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 242 | MATH 310 | Applied Statistical Methods | 3 | 6 | MATH 161 Calculus I (118) (C and above) | | MATH 321 Probability (482) (C and above) | Biological Sciences, Petroleum Engineering | Mining Engineering | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 243 | MATH 321 | Probability | 3 | 6 | MATH 162 Calculus II (170) (C and above) | | ECON 211 Economic Statistics (2280) (C- and above) OR PLS 211 Quantitative Methods (221) (C- and above) | Mathematics, Robotics Engineering, Robotics and Mechatronics | Computer Science | Business Administration (UG), SEDS, SMG, SSH, SoM | |

| | | | | | | | | | | | |
|-----|----------|--------------------------------------|---|---|---|--|---|-------------|--|---|--|
| 244 | MATH 322 | Mathematical Statistics | 3 | 6 | MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 245 | MATH 323 | Actuarial Mathematics I | 3 | 6 | MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above) OR (MATH 162 Calculus II (170) (C and above) AND MATH 310 Applied Statistical Methods (82) (C and above)) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 246 | MATH 351 | Numerical Methods with Applications | 3 | 6 | MATH 274 Introduction to Differential Equations (484) (C and above) AND MATH 263 Calculus III (81) (C and above) | | ENG 202 Numerical Methods in Engineering (5506) (C and above) | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 247 | MATH 361 | Real Analysis I | 3 | 6 | MATH 263 Calculus III (81) (C and above) AND MATH 251 Discrete Mathematics (85) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 248 | MATH 371 | Introduction to Mathematical Biology | 3 | 6 | MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 274 Introduction to Differential Equations (484) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 249 | MATH 417 | Cryptography | 3 | 6 | MATH 273 Linear Algebra with Applications (84) (C and above) AND (MATH 251 Discrete Mathematics (85) (C and above) OR MATH 301 Introduction to Number Theory (613) (C and above) OR MATH 355 Introduction to Proofs (86) (C and above)) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 250 | MATH 424 | Mathematical Finance | 3 | 6 | MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |

| | | | | | | | | | | | |
|-----|----------|-----------------------------------|---|---|--|---|--|--|--|---|--|
| 251 | MATH 425 | Stochastic Processes | 3 | 6 | MATH 321 Probability (482) (C and above) OR ECON 211 Economic Statistics (2280) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 252 | MATH 446 | Time Series Analysis | 3 | 6 | MATH 322 Mathematical Statistics (1165) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 253 | MATH 449 | Statistical Programming | 3 | 6 | MATH 322 Mathematical Statistics (1165) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 254 | MATH 471 | Nonlinear Differential Equations | 3 | 6 | MATH 273 Linear Algebra with Applications (84) (C and above) AND MATH 274 Introduction to Differential Equations (484) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 255 | MATH 477 | Applied Finite Element Methods | 3 | 6 | MATH 351 Numerical Methods with Applications (1166) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 256 | MATH 480 | Complex Analysis | 3 | 6 | MATH 263 Calculus III (81) (C and above) | | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 257 | MATH 481 | Partial Differential Equations | 3 | 6 | MATH 274 Introduction to Differential Equations (484) (C and above) | MATH 480 Complex Analysis (618) (C and above) | | Mathematics | | Business Administration (UG), SEDS, SMG, SSH, SoM | |
| 258 | MATH 490 | Special Topics in Mathematics I | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 259 | MATH 491 | Special Topics in Mathematics II | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 260 | MATH 492 | Special Topics in Mathematics III | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |

Physics

| | | | | | | | | | | | | |
|-----|----------|--|---|---|--|---|---|---|---|--|--|--|
| 261 | PHYS 161 | Physics I for Scientists and Engineers with Laboratory | 4 | 8 | | MATH 161 Calculus I (118) (C and above) | PHYS 171 Physics I for Physics Majors with Laboratory (1401) (C- and above) | 1 year UG SEDS, 1 year UG SMG, 1 year UG SSH Biological Sciences, 1 year UG SSH Chemistry, 1 year UG SSH Mathematics, 1 year UG SSH Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 262 | PHYS 201 | Introductory Astronomy I | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 263 | PHYS 221 | Classical Mechanics I | 3 | 6 | (PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above)) AND MATH 273 Linear Algebra with Applications (84) (C- and above) | | | Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 264 | PHYS 250 | Introduction to Nuclear Science and Technology | 3 | 6 | | | | Physics, SSH | GSB, SEDS, SMG, SoM | | | |
| 265 | PHYS 261 | Modern Physics with laboratory | 4 | 8 | MATH 162 Calculus II (170) (C- and above) AND (PHYS 152 Introductory Physics II with Lab (1176) (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above)) | | | Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 266 | PHYS 315 | Applied Mathematical Methods | 3 | 6 | (PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)) AND MATH 274 Introduction to Differential Equations (484) (C- and above) | | | Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |

| | | | | | | | | | | | | |
|-----|----------|-------------------------------------|---|---|---|--|--|--|---|--|--|--|
| 267 | PHYS 361 | Classical Electrodynamics I | 3 | 6 | | PHYS 315 Applied Mathematical Methods (653) (D and above) OR PHYS 411 Advanced Mathematical Physics (3142) (D and above) | | Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 268 | PHYS 395 | Research Methods | 3 | 6 | | | | Physics | SEDS, SMG, SSH | | | |
| 269 | PHYS 421 | Parallel Computing | 4 | 8 | PHYS 270 Introduction to Scientific Computing and Data Analysis (488) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above) OR CSCI 115 Programming Fundamentals (5257) (C- and above) | | | Physics | | | | |
| 270 | PHYS 452 | Quantum Mechanics II | 3 | 6 | PHYS 451 Quantum Mechanics I (1415) (C- and above) | | | Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 271 | PHYS 463 | Astrophysics and General Relativity | 3 | 6 | MATH 162 Calculus II (170) (C- and above) AND PHYS 221 Classical Mechanics I (652) (C- and above) AND MATH 274 Introduction to Differential Equations (484) (C- and above) | | | Physics | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 272 | PHYS 498 | Honors Thesis Research | 0 | 0 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |

Political Science and International Relations

| | | | | | | | | | | | |
|-----|---------|--|---|---|--|--|--|---|--|---|--|
| | | | | | | | | | | | |
| 273 | PLS 100 | Introduction to the Politics of Central Asia | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Undeclared SSH | Anthropology, Biological Sciences, Business Administration (UG), Chemistry, Economics, History, Mathematics, Physics, SEDS, SMG, SoM, Sociology, World Languages, Literature and Culture | Political Science and International Relations | |
| 274 | PLS 101 | Introduction to Political Science | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Undeclared SSH | Anthropology, Biological Sciences, Business Administration (UG), Chemistry, Economics, History, Mathematics, Physics, SEDS, SMG, SoM, Sociology, World Languages, Literature and Culture | Political Science and International Relations | |
| 275 | PLS 120 | Introduction to Political Theory | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Political Science and International Relations, Undeclared SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 276 | PLS 140 | Introduction to Comparative Politics | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Political Science and International Relations, Undeclared SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | |

| | | | | | | | | | | | |
|-----|---------|---|---|---|---|--|--|---|--|---|--|
| | | | | | | | | | | | |
| 277 | PLS 150 | Introduction to International Relations | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 6 year UG SEDS (pending graduation), 6 year UG SSH (pending graduation), Political Science and International Relations, Undeclared SSH | Business Administration (UG), SEDS, SMG, SSH, SoM | | |
| 278 | PLS 210 | Political Science Research Methods | 3 | 6 | | | | 2 year UG SSH Political Sciences and International Relations | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | |
| 279 | PLS 211 | Quantitative Methods | 3 | 6 | | | ECON 211 Economic Statistics (2280) (C- and above) | 2 year UG SSH Political Sciences and International Relations | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | |
| 280 | PLS 330 | Politics and Governance of Eurasia | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | |
| 281 | PLS 338 | U.S. Government and Politics | 3 | 6 | (PLS 140 Introduction to Comparative Politics (223) (C- and above) OR PLS 101 Introduction to Political Science (513) (C- and above)) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | |
| 282 | PLS 341 | Politics of Development | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | |
| 283 | PLS 352 | International Relations Theory | 3 | 6 | PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | |
| 284 | PLS 354 | Introduction to International Law | 3 | 6 | PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | |

| | | | | | | | | | | | | |
|-----|---------|---|---|---|---|--|--|--|---|-----|--|--|
| 285 | PLS 360 | Foreign Policy Analysis | 3 | 6 | PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | | |
| 286 | PLS 370 | Law, Politics and Society | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | | |
| 287 | PLS 391 | Intermediate Special Topics in Comparative Politics | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) | | | 3 year UG SSH Political Sciences and International Relations | Political Science and International Relations | SSH | | |
| 288 | PLS 395 | Independent Study | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above) | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 289 | PLS 416 | Experimental Political Science | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above) | | | Political Science and International Relations | | SSH | | |
| 290 | PLS 424 | Issues in the Philosophy of Social Science | 3 | 6 | PLS 120 Introduction to Political Theory (512) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | Political Science and International Relations | | SSH | | |
| 291 | PLS 426 | Hannah Arendt on Power, Violence, and Revolution | 3 | 6 | PLS 120 Introduction to Political Theory (512) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | Political Science and International Relations | | SSH | | |
| 292 | PLS 431 | Politics and Governance of the Russian Federation | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) | | | Political Science and International Relations | | SSH | | |
| 293 | PLS 432 | Comparative Democratization | 3 | 6 | PLS 210 Political Science Research Methods (129) (C- and above) | | | Political Science and International Relations | | SSH | | |

| | | | | | | | | | | | |
|-----------------------------------|---------|---|---|---|---|--|--|--|--|--|--|
| 294 | PLS 441 | Advanced Topics in Comparative Politics | 3 | 6 | PLS 140 Introduction to Comparative Politics (223) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | Political Science and International Relations | | SSH | |
| 295 | PLS 451 | Advanced Topics in International Relations | 3 | 6 | PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above) | | | Political Science and International Relations | | SSH | |
| 296 | PLS 460 | Environmental Politics | 3 | 6 | | | | Political Science and International Relations | | SSH | |
| 297 | PLS 463 | NGO Politics | 3 | 6 | PLS 150 Introduction to International Relations (511) (C- and above) AND PLS 210 Political Science Research Methods (129) (C- and above) | | | Political Science and International Relations | | SSH | |
| 298 | PLS 495 | Research Practicum in PSIR | 1 | 2 | PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above) | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| SSH | | | | | | | | | | | |
| 299 | SSH 300 | School of Sciences and Humanities Internship | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 300 | SSH 301 | School of Sciences and Humanities Internship: Second Experience | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| Sociology and Anthropology | | | | | | | | | | | |
| 301 | ANT 101 | Being Human: An Introduction to Four Field Anthropology | 3 | 6 | | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Undeclared SEDS, Undeclared SSH | 2 year UG SSH, 3 year UG SSH Biological Sciences, SoM, Sociology | Business Administration (UG), SEDS, SMG, SSH | |

| | | | | | | | | | | | |
|-----|---------|---|---|---|---|--|---|--|---|--|--|
| 302 | ANT 160 | Introduction to Biological Anthropology | 3 | 6 | | | ANT 361 Human Evolution: Bones, Stones and Genomes (160) (C- and above) | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Anthropology, Undeclared SEDS, Undeclared SSH | 2 year UG SSH, 3 year UG SSH Biological Sciences, SoM | Business Administration (UG), SEDS, SMG, SSH | |
| 303 | ANT 240 | Laboratory Methods in Archaeology | 3 | 6 | | | Anthropology | Sociology | Business Administration (UG), SEDS, SMG, SSH | | |
| 304 | ANT 333 | Anthropology of Space | 3 | 6 | | | Anthropology | Sociology | Business Administration (UG), SEDS, SMG, SSH | | |
| 305 | ANT 400 | Research Assistance in Anthropology | 1 | 2 | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 306 | ANT 401 | Research Assistance in Anthropology | 1 | 2 | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 307 | ANT 402 | Research Assistance in Anthropology | 1 | 2 | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 308 | ANT 475 | Digital Ethnographies | 3 | 6 | ANT 110 Introduction to Sociocultural Anthropology (501) (C-and above) OR PLS 210 Political Science Research Methods (129) (C- and above) OR SOC 201 Social Science Research Methods (1341) (C- and above) OR ANT 214/SOC 214 Qualitative Methods (1033) (C- and above) | | Anthropology | | | | |
| 309 | ANT 498 | Capstone Seminar I | 3 | 6 | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 310 | SOC 101 | Introduction to Sociology | 3 | 6 | | | 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), Sociology, Undeclared SEDS, Undeclared SSH | 2 year UG SSH, 3 year UG SSH Biological Sciences, Anthropology, SoM | Business Administration (UG), SEDS, SMG, SSH | | |

| | | | | | | | | | | | | | |
|-----|---------|--|---|---|--|--|--|---|---|---|--|--|--|
| | | | | | | | | | | | | | |
| 311 | SOC 201 | Social Science Research Methods | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SEDS (pending graduation), 5 year UG SSH (pending graduation), 5 year UG SSH Anthropology, Sociology, Undeclared SEDS, Undeclared SMG, Undeclared SSH | 2 year UG SSH, 3 year UG SSH Biological Sciences, Anthropology, SoM | Business Administration (UG), SEDS, SMG, SSH | | | |
| 312 | SOC 203 | Quantitative Methods in Sociology | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 313 | SOC 210 | Gender and Society | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 314 | SOC 220 | Science, Technology, and Society | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 315 | SOC 221 | International Migration | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |
| 316 | SOC 223 | Social Movements: How People Make Change | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH, SoM | | | |

| | | | | | | | | | | | |
|-----|---------|---------------------------------|---|---|---|--|--|---|-------------------------|-------------------------|--|
| 317 | SOC 301 | Classical Sociological Theory | 3 | 6 | SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above) OR ANT 110 Introduction to Sociocultural Anthropology (501) (C- and above) | | | 4 year UG SSH Sociology, 5 year UG SSH Sociology | 3 year UG SSH Sociology | Anthropology, Sociology | |
| 318 | SOC 310 | Social Inequality | 3 | 6 | SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above) | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | SSH | |
| 319 | SOC 313 | Social Foundations of Education | 3 | 6 | SOC 101 Introduction to Sociology (508) (C- and above) OR SOC 115 Global Social Problems (1032) (C- and above) | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | SSH | |
| 320 | SOC 320 | Organized Crime and Corruption | 3 | 6 | SOC 101 Introduction to Sociology (508) (C- and above) | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | SSH | |

| | | | | | | | | | | | |
|-----|---------|----------------------------------|---|---|--|--|--|--|---|-------------------------|---------------------|
| | | | | | | | | | | | |
| 321 | SOC 350 | Digital Deviance | 3 | 6 | SOC 201 Social Science Research Methods (1341) (C- and above) OR SOC 203 Quantitative Methods in Sociology (1377) (C- and above) OR SOC 210 Gender and Society (226) (C- and above) OR SOC 211 Social Justice in a Global Society (162) (C- and above) OR SOC 213 Work and Society (453) (C- and above) OR SOC 215 Sociology of Race and Ethnicity (3647) (C- and above) OR SOC 217 Sociology of the Family (1324) (C- and above) OR SOC 220 Science, Technology, and Society (2512) (C- and above) OR SOC 221 International Migration (2516) (C- and above) OR SOC 223 Social Movements: How People Make Change (3357) (C- and above) OR SOC 301 Classical Sociological Theory (683) (C- and above) OR SOC 310 Social Inequality (1031) (C- and above) OR SOC 314 Organizations and Society (1328) (C- and above) OR SOC 317 Economy and Society (2513) (C- and above) OR SOC 318 Sexuality and Gender in a Transnational World (3648) (C- and above) | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | SEDS, SMG, SSH, SoM |
| 322 | SOC 399 | Special Topics in Sociology | 3 | 6 | | | | | | | |
| 323 | SOC 400 | Research Assistance in Sociology | 1 | 2 | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |
| 324 | SOC 401 | Research Assistance in Sociology | 1 | 2 | | | Instructor's Permission Required. Registration through Add Course form only! | | | | |

| | | | | | | | | | | | |
|-----|---------|---|---|---|---|--|--|--|-------------------------|-----|--|
| 325 | SOC 402 | Research Assistance in Sociology | 1 | 2 | | | | | | | |
| 326 | SOC 420 | Applied Policy Analysis: Tools and Perspectives | 3 | 6 | SOC 101 Introduction to Sociology (508) (C and above) | | | 3 year UG SSH Sociology, 4 year UG SSH Sociology, 5 year UG SSH Sociology | Anthropology, Sociology | SSH | |
| 327 | SOC 475 | Sociology of Consumption | 3 | 6 | Subject "SOC" BETWEEN 200 and 299 | | | 3 year UG SSH Sociology, 4 year UG SSH Sociology, 5 year UG SSH Sociology | Anthropology, Sociology | SSH | |
| 328 | SOC 485 | Statistics and Machine Learning for Social Reform | 3 | 6 | (SOC 201 Social Science Research Methods (1341) (C- and above) AND SOC 203 Quantitative Methods in Sociology (1377) (C- and above)) OR (PLS 210 Political Science Research Methods (129) (C- and above) AND PLS 211 Quantitative Methods (221) (C- and above)) OR (SOC 101 Introduction to Sociology (508) (C- and above) AND ECON 301 Econometrics I (664) (C- and above)) | | CSCI 235 Programming Languages (638) (C- and above) OR ECON 318 Applied Econometrics (6078) (C- and above) OR CSCI 344 Data Mining and Decision Support (1916) (C- and above) OR PETE 410 Introduction to Data Science and Machine Learning (8128) (C- and above) OR CSCI 447 Machine Learning: Theory and Practice (4828) (C- and above) OR MATH 449 Statistical Programming (2104) (C- and above) OR ELCE 455 Machine Learning with Python (6365) (C- and above) | | | | |
| 329 | SOC 498 | Capstone Seminar Part I | 3 | 6 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |

Sociology and Anthropology, Sociology and Anthropology

| | | | | | | | | | | | |
|-----|-----------------|--|---|---|---|--|--|--|-------------------------|--|--|
| 330 | ANT 214/SOC 214 | Qualitative Methods | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH | |
| 331 | ANT 285/SOC 212 | Food and Society | 3 | 6 | | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | Anthropology, Sociology | Business Administration (UG), SEDS, SMG, SSH | |
| 332 | ANT 482/SOC 482 | Climate Change, Future Energy and Sustainability | 3 | 6 | ANT 214/SOC 214 Qualitative Methods (1033) (C- and above) OR SOC 203 Quantitative Methods in Sociology (1377) (C- and above) | | | 3 year UG SSH Anthropology, 3 year UG SSH Sociology, 4 year UG SSH Anthropology, 4 year UG SSH Sociology, 5 year UG SSH Anthropology, 5 year UG SSH Sociology | | | |

SEDS

Chemical and Materials Engineering

| | | | | | | | | | | | |
|-----|----------|---|---|---|--|--|--|---|------------------------------------|--|--|
| 333 | CHME 200 | Basic Principles and Calculations in Chemical Engineering | 3 | 6 | | | | 2 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 334 | CHME 201 | Chemical Engineering Thermodynamics | 3 | 6 | | | | 2 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 335 | CHME 222 | Inorganic and Analytical Chemistry | 3 | 6 | | | | 2 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 336 | CHME 300 | Heat and Mass Transfer | 3 | 6 | | | | 3 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 337 | CHME 301 | Applied Mathematics for Process Design | 3 | 6 | | | | 3 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 338 | CHME 302 | Instrumental Methods of Analysis for Engineers | 3 | 6 | | | | 3 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 339 | CHME 351 | Environment and Development | 3 | 6 | | | | 3 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 340 | CHME 353 | Electrochemical Engineering | 3 | 6 | | | | 3 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |

| | | | | | | | | | | | |
|--|----------|-------------------------------------|---|---|--|--|--|---|---|---|--|
| 341 | CHME 354 | Introduction to Metallurgy | 3 | 6 | | | | 3 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 342 | CHME 400 | Process Design and Simulation | 3 | 6 | CHME 300 Heat and Mass Transfer (5952) (D and above) AND CHME 304 Chemical Reaction Engineering (6168) (D and above) | | | 4 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 343 | CHME 401 | Chemical Engineering Lab II | 3 | 6 | | | | 4 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| 344 | CHME 453 | Multiphase Systems | 3 | 6 | CHME 202 Fluid Mechanics (5543) (D and above) | | | 4 year UG SEDS Chemical and Materials Engineering | Chemical and Materials Engineering | | |
| Civil and Environmental Engineering | | | | | | | | | | | |
| 345 | CEE 200 | Structural Mechanics I | 3 | 6 | | | | 2 year UG SEDS Civil and Environmental Engineering, 2 year UG SEDS Mechanical and Aerospace Engineering | 3 year UG SEDS Civil and Environmental Engineering, 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Civil and Environmental Engineering | |
| 346 | CEE 201 | Environmental Chemistry | 3 | 6 | | | | 2 year UG SEDS Civil and Environmental Engineering | 3 year UG SEDS Civil and Environmental Engineering | 4 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering | |
| 347 | CEE 204 | Civil Engineering CAD and Surveying | 3 | 6 | | | | 2 year UG SEDS Civil and Environmental Engineering | 3 year UG SEDS Civil and Environmental Engineering | | |
| 348 | CEE 300 | Structural Design - Concrete | 3 | 6 | CEE 203 Structural Analysis (5500) (D and above) | | | 3 year UG SEDS Civil and Environmental Engineering | 4 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering | | |

| | | | | | | | | | | | |
|-----|---------|--|---|---|--|--|--|--|--|--|--|
| 349 | CEE 302 | Geotechnical Engineering | 3 | 6 | | | | 3 year UG SEDS Civil and Environmental Engineering | 4 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering | | |
| 350 | CEE 304 | Fluid Mechanics | 3 | 6 | | | | 3 year UG SEDS Civil and Environmental Engineering | 4 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering | | |
| 351 | CEE 306 | Civil Engineering Materials | 3 | 6 | ENG 102 Engineering Materials I (4708) (D and above) | | | 3 year UG SEDS Civil and Environmental Engineering | 4 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Civil and Environmental Engineering | | |
| 352 | CEE 401 | Construction Technology and Management | 3 | 6 | CEE 306 Civil Engineering Materials (5897) (D and above) | | | 4 year UG SEDS Civil and Environmental Engineering | 5 year UG SEDS Civil and Environmental Engineering | | |
| 353 | CEE 450 | Behavior and Design of Structural System | 3 | 6 | CEE 300 Structural Design - Concrete (5895) (D and above) AND CEE 301 Structural Design - Steel (6157) (D and above) | | | 4 year UG SEDS Civil and Environmental Engineering | 5 year UG SEDS Civil and Environmental Engineering | | |
| 354 | CEE 460 | Water Supply and Distribution Management | 3 | 6 | CEE 305 Hydraulics and Hydrology (6177) (D and above) | | | 4 year UG SEDS Civil and Environmental Engineering | 5 year UG SEDS Civil and Environmental Engineering | | |
| 355 | CEE 462 | Pavement Design and Performance | 3 | 6 | CEE 306 Civil Engineering Materials (5897) (D and above) AND CEE 303 Geotechnical Design (6158) (D and above) | | | 4 year UG SEDS Civil and Environmental Engineering | 5 year UG SEDS Civil and Environmental Engineering | | |
| 356 | CEE 463 | Individual Research Project in Civil & Environmental Engineering 1 | 3 | 6 | | | | 4 year UG SEDS Civil and Environmental Engineering | 5 year UG SEDS Civil and Environmental Engineering | | |

| | | | | | | | | | | | | |
|-------------------------|----------|---|---|---|--|--|--|--|--|--|--|--|
| 357 | CEE 467 | Building Information Modelling for Geotechnical Engineering | 3 | 6 | CEE 303 Geotechnical Design (6158) (D and above) | | | 4 year UG SEDS Civil and Environmental Engineering | 5 year UG SEDS Civil and Environmental Engineering | | | |
| Computer Science | | | | | | | | | | | | |
| 358 | CSCI 111 | Web Programming and Problem Solving | 3 | 6 | | | CSCI 101 Introduction to Computational Sciences (147) (D and above) OR CSCI 115 Programming Fundamentals (5257) (D and above) OR CSCI 151 Programming for Scientists and Engineers (192) (D and above) OR ENG 101 Programming for Engineers (4517) (D and above) | SSH, SoM | | | | |
| 359 | CSCI 115 | Programming Fundamentals | 4 | 8 | | | CSCI 101 Introduction to Computational Sciences (147) (D and above) OR CSCI 111 Web Programming and Problem Solving (110) (D and above) OR CSCI 151 Programming for Scientists and Engineers (192) (D and above) OR ENG 101 Programming for Engineers (4517) (D and above) | Biological Sciences, Chemistry, Mathematics, SoM | SSH | | | |

| | | | | | | | | | | | |
|-----|----------|--|---|---|--|--|---|---|--|----------------|--|
| | | | | | | | | | | | |
| 360 | CSCI 151 | Programming for Scientists and Engineers | 4 | 8 | | | CSCI 111 Web Programming and Problem Solving (110) (D and above) OR CSCI 115 Programming Fundamentals (5257) (D and above) OR ENG 101 Programming for Engineers (4517) (B- and above) | Computer Science, Robotics Engineering, Robotics and Mechatronics | 1 year UG SSH Physics, Undeclared SEDS | SEDS, SMG, SSH | |
| 361 | CSCI 231 | Computer Systems and Organization | 3 | 6 | CSCI 151 Programming for Scientists and Engineers (192) (C- and above) | | | Computer Science | | | |
| 362 | CSCI 235 | Programming Languages | 4 | 8 | CSCI 152 Performance and Data Structures (489) (C- and above) | | | Computer Science | | | |
| 363 | CSCI 281 | Human-Computer Interaction | 3 | 6 | CSCI 152 Performance and Data Structures (489) (C- and above) | | | Computer Science | | | |
| 364 | CSCI 341 | Database Systems | 3 | 6 | CSCI 152 Performance and Data Structures (489) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 365 | CSCI 344 | Data Mining and Decision Support | 3 | 6 | CSCI 341 Database Systems (195) (C- and above) AND MATH 273 Linear Algebra with Applications (84) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 366 | CSCI 355 | Compiler Construction | 3 | 6 | CSCI 235 Programming Languages (638) (C and above) AND CSCI 272 Formal Languages (4689) (C and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 367 | CSCI 361 | Software Engineering | 3 | 6 | CSCI 152 Performance and Data Structures (489) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 368 | CSCI 364 | Software Architecture and Design | 3 | 6 | CSCI 361 Software Engineering (640) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |

| | | | | | | | | | | | |
|--|----------|--|---|---|---|---|--|---|-------------------------------------|--|--|
| 369 | CSCI 390 | Artificial Intelligence | 3 | 6 | CSCI 152 Performance and Data Structures (489) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 370 | CSCI 393 | Introduction to Natural Language Processing | 3 | 6 | CSCI 390 Artificial Intelligence (643) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 371 | CSCI 408 | Senior Project I | 3 | 6 | | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 372 | CSCI 423 | Introduction to Parallel Systems and GPU Programming | 3 | 6 | CSCI 332 Operating Systems (490) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 373 | CSCI 434 | Information Security | 3 | 6 | | CSCI 333 Computer Networks (1145) (D and above) | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 374 | CSCI 437 | Internet of Things: Technologies and Applications | 3 | 6 | CSCI 333 Computer Networks (1145) (C- and above) AND ROBT 206 Microcontrollers with Lab (476) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 375 | CSCI 471 | Complexity and Computability | 3 | 6 | MATH 251 Discrete Mathematics (85) (C- and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| 376 | CSCI 494 | Deep Learning | 3 | 6 | CSCI 390 Artificial Intelligence (643) (C and above) AND MATH 273 Linear Algebra with Applications (84) (C and above) | | | 3 year UG SEDS Computer Science, 4 year UG SEDS Computer Science, 5 year UG SEDS Computer Science | | | |
| Electrical and Computer Engineering | | | | | | | | | | | |
| 377 | ELCE 200 | Circuits Theory I | 3 | 6 | MATH 162 Calculus II (170) (C- and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) | | | 2 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |

| | | | | | | | | | | | |
|-----|-----------|--------------------------------------|---|---|--|---|--|--|-------------------------------------|--|--|
| 378 | ELCE 203 | Signals and Systems | 3 | 6 | MATH 162 Calculus II (170) (C- and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) | | | 2 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 379 | ELCE 203L | Signals and Systems Laboratory | 1 | 2 | | ELCE 203 Signals and Systems (4993) (D and above) | | 2 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 380 | ELCE 204 | Solid State Devices | 3 | 6 | ENG 103 Engineering Materials II (4818) (C- and above) | | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 381 | ELCE 204L | Solid State Devices Laboratory | 1 | 2 | ENG 103 Engineering Materials II (4818) (C- and above) | ELCE 204 Solid State Devices (5508) (D and above) | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 382 | ELCE 205 | Discrete Mathematics | 3 | 6 | MATH 162 Calculus II (170) (C- and above) | | | 2 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 383 | ELCE 301 | Electronic Circuits | 3 | 6 | ELCE 201 Circuit Theory (5507) (C- and above) | | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 384 | ELCE 301L | Electronic Circuits Laboratory | 1 | 2 | ELCE 201L Circuit Theory Laboratory (6179) (C- and above) | ELCE 301 Electronic Circuits (5918) (C- and above) | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 385 | ELCE 304 | Computer Networks | 3 | 6 | ENG 101 Programming for Engineers (4517) (C- and above) | | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 386 | ELCE 304L | Computer Networks Laboratory | 1 | 2 | | ELCE 304 Computer Networks (5920) (D and above) | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 387 | ELCE 306 | Linear Control Theory | 3 | 6 | ELCE 203 Signals and Systems (4993) (C- and above) | | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 388 | ELCE 307 | Digital Signal Processing | 3 | 6 | ELCE 203 Signals and Systems (4993) (C- and above) | | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 389 | ELCE 307L | Digital Signal Processing Laboratory | 1 | 2 | ELCE 203 Signals and Systems (4993) (C- and above) AND ELCE 203L Signals and Systems Laboratory (6182) (C- and above) | ELCE 307 Digital Signal Processing (5921) (D and above) | | 3 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |

| | | | | | | | | | | | |
|-----|----------|---|---|---|---|--|--|--|--|--|--|
| 390 | ELCE 352 | Applied Simulation Laboratory | 2 | 4 | ELCE 200 Introduction to Electrical Circuits (4991) (D+ and above) | | | 3 year UG SEDS Electrical and Computer Engineering | 4 year UG SEDS Electrical and Computer Engineering | 5 year UG SEDS Electrical and Computer Engineering | |
| 391 | ELCE 354 | Power Electronics | 3 | 6 | ELCE 201 Circuit Theory (5507) (D and above) | | | 4 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 392 | ELCE 355 | Power Systems Protection | 3 | 6 | ELCE 303 Power System Analysis (6180) (D and above) | | | 4 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 393 | ELCE 455 | Machine Learning with Python | 3 | 6 | ENG 101 Programming for Engineers (4517) (C- and above) OR CSCI 151 Programming for Scientists and Engineers (192) (C- and above) | | | 4 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 394 | ELCE 462 | Wireless Networks | 3 | 6 | ENG 201 Applied Probability and Statistics (5505) (C- and above) AND (ELCE 308 Communication Systems (5922) (C- and above) OR ELCE 304 Computer Networks (5920) (C- and above)) | | | 4 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 395 | ELCE 463 | Network Science: Methods and Applications | 3 | 6 | ENG 101 Programming for Engineers (4517) (C- and above) AND MATH 162 Calculus II (170) (C- and above) AND ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (C- and above) | | | 4 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |
| 396 | ELCE 466 | RF and Microwave Circuits | 3 | 6 | | | | 4 year UG SEDS Electrical and Computer Engineering | Electrical and Computer Engineering | | |

| | | | | | | | | | | | |
|---|---------|-----------------------------|---|---|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| 397 | ENG 101 | Programming for Engineers | 3 | 6 | | CSCI 151 Programming for Scientists and Engineers (192) (F) OR CSCI 111 Web Programming and Problem Solving (110) (F) OR CSCI 115 Programming Fundamentals (5257) (F) OR CSCI 152 Performance and Data Structures (489) (F) OR CSCI 408 Senior Project I (1481) (F) OR CSCI 409 Senior Project II (1483) (F) | 1 year UG SEDS Electrical and Computer Engineering | 1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering | | | |
| Mechanical and Aerospace Engineering | | | | | | | | | | | |
| 398 | ENG 100 | Introduction to Engineering | 3 | 6 | | | 1 year UG SEDS Chemical and Materials Engineering, 1 year UG SEDS Civil and Environmental Engineering, 1 year UG SEDS Electrical and Computer Engineering, 1 year UG SEDS Mechanical and Aerospace Engineering | | | | |

| | | | | | | | | | | | |
|-----|---------|---|---|---|---|--|--|--|--|---|--|
| | | | | | | | | | | | |
| 399 | ENG 200 | Engineering Mathematics III (Differential Equations and Linear Algebra) | 3 | 6 | MATH 162 Calculus II (170) (C and above) | | | 2 year UG SEDS Chemical and Materials Engineering, 2 year UG SEDS Civil and Environmental Engineering, 2 year UG SEDS Electrical and Computer Engineering, 2 year UG SEDS Mechanical and Aerospace Engineering, 3 year UG SEDS Electrical and Computer Engineering | 3 year UG SEDS Civil and Environmental Engineering, 3 year UG SEDS Mechanical and Aerospace Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering, 5 year UG SEDS Mechanical and Aerospace Engineering, Chemical and Materials Engineering, Electrical and Computer Engineering | 4 year UG SEDS Civil and Environmental Engineering | |
| 400 | ENG 400 | Capstone Project | 3 | 6 | | | | 4 year UG SEDS Chemical and Materials Engineering, 4 year UG SEDS Civil and Environmental Engineering, 4 year UG SEDS Electrical and Computer Engineering, 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Civil and Environmental Engineering, 5 year UG SEDS Electrical and Computer Engineering, Chemical and Materials Engineering | | |
| 401 | MAE 201 | Computer Aided Design | 3 | 6 | | | | 2 year UG SEDS Mechanical and Aerospace Engineering | 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Mechanical and Aerospace Engineering | |
| 402 | MAE 202 | Environmental Science | 3 | 6 | | | | 2 year UG SEDS Mechanical and Aerospace Engineering | 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Mechanical and Aerospace Engineering | |
| 403 | MAE 300 | Fluid Mechanics I | 3 | 6 | PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (D and above) | | | 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | |
| 404 | MAE 301 | Engineering Thermodynamics | 3 | 6 | | | | 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | |
| 405 | MAE 303 | Control Systems | 3 | 6 | | | | 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | |

| | | | | | | | | | | | |
|-----|---------|--|---|---|--|--|--|---|---|---|--|
| 406 | MAE 307 | Engineering Dynamics II | 3 | 6 | MAE 206 Engineering Dynamics I (5535) (D and above) | | | 3 year UG SEDS Mechanical and Aerospace Engineering | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | |
| 407 | MAE 400 | Heat Transfer | 3 | 6 | MAE 300 Fluid Mechanics I (5926) (D and above) AND MAE 301 Engineering Thermodynamics (5927) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 408 | MAE 401 | Mechanical Systems Design | 3 | 6 | MAE 302 Machine Elements Design (5928) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 409 | MAE 450 | Additive Manufacturing | 3 | 6 | MAE 205 Material and Manufacturing I (5534) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 410 | MAE 455 | Flight Performance and Mechanics | 3 | 6 | MAE 340 Aerodynamics (6576) (D and above) OR MAE 305 Fluid Mechanics II (6173) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 411 | MAE 462 | Multiphase Systems | 3 | 6 | MAE 300 Fluid Mechanics I (5926) (D and above) AND MAE 305 Fluid Mechanics II (6173) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 412 | MAE 466 | Application of Optimization in Mechanical and Aerospace Engineering. | 3 | 6 | ENG 202 Numerical Methods in Engineering (5506) (D and above) AND MATH 162 Calculus II (170) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 413 | MAE 467 | Heating, Ventilating and Air Conditioning | 3 | 6 | MAE 301 Engineering Thermodynamics (5927) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |
| 414 | MAE 468 | Introduction to Aerospace Propulsion. | 3 | 6 | MAE 300 Fluid Mechanics I (5926) (D and above) AND MAE 301 Engineering Thermodynamics (5927) (D and above) | | | 4 year UG SEDS Mechanical and Aerospace Engineering | 5 year UG SEDS Mechanical and Aerospace Engineering | | |

Robotics and Mechatronics

| | | | | | | | | | | | | |
|-----|----------|---|---|---|--|--|--|---|-------------------------------|--|--|--|
| 415 | ROBT 201 | Mechanics: Statics and Dynamics | 3 | 6 | MATH 162 Calculus II (170) (C- and above) AND (PHYS 161 Physics I for Scientists and Engineers with Laboratory (116) (C- and above) OR PHYS 171 Physics I for Physics Majors with Laboratory (1401) (C- and above)) | | | Robotics Engineering, Robotics and Mechatronics | SMG | | | |
| 416 | ROBT 203 | Electrical and Electronic Circuits I with Lab | 4 | 8 | MATH 162 Calculus II (170) (C- and above) AND (PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above) OR (PHYS 141 Physics I for non-majors with Lab (1437) (C- and above) AND PHYS 142 Physics II for non-majors with Lab (1438) (C- and above))) | | | Robotics Engineering, Robotics and Mechatronics | | | | |
| 417 | ROBT 205 | Signals and Sensing with Lab | 4 | 8 | MATH 162 Calculus II (170) (C- and above) AND (PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (1402) (C- and above)) | | | Robotics Engineering, Robotics and Mechatronics | Computer Science | | | |
| 418 | ROBT 301 | Mechanical Design with CAD and Machining Laboratory | 4 | 8 | ROBT 201 Mechanics: Statics and Dynamics (475) (C- and above) | | | Robotics Engineering, Robotics and Mechatronics | Computer Science | | | |
| 419 | ROBT 303 | Linear Control Theory with Lab | 4 | 8 | ROBT 202 System Dynamics and Modeling (68) (C- and above) | | | Robotics Engineering, Robotics and Mechatronics | | | | |
| 420 | ROBT 308 | Industrial Automation | 3 | 6 | | | | Robotics Engineering, Robotics and Mechatronics | Computer Science, Mathematics | | | |
| 421 | ROBT 310 | Image Processing | 3 | 6 | MATH 162 Calculus II (170) (C- and above) AND MATH 273 Linear Algebra with Applications (84) (C- and above) | | | Robotics Engineering, Robotics and Mechatronics | Computer Science, Mathematics | | | |

| | | | | | | | | | | | |
|-----|-------------|---|---|---|---|--|--|---|-------------------------------|--|--|
| 422 | ROBT 403 | Robotics II: Control, Modeling and Learning with Laboratory | 4 | 8 | ROBT 303 Linear Control Theory with Lab (623) (C- and above) AND ROBT 312 Robotics I: Kinematics and Dynamics (5263) (C- and above) | | | Robotics Engineering, Robotics and Mechatronics | | | |
| 423 | ROBT 407 | Machine Learning with Applications | 3 | 6 | MATH 273 Linear Algebra with Applications (84) (C- and above) AND MATH 321 Probability (482) (C- and above) AND CSCI 152 Performance and Data Structures (489) (C- and above) | | | Robotics Engineering, Robotics and Mechatronics | Computer Science, Mathematics | | |
| 424 | ROBT 491 | Capstone Project I | 3 | 6 | ROBT 391 Research methods (7418) (C- and above) | | | 4 year UG SEDS Robotics Engineering | | | |