

Course Requirements and Registration Priorities Fall 2016

| # | Abbr | Title | Cr(US) | Cr(ECTS) | PreRequisite | CoRequisite | AntiRequisite | 1st priority registration | 2nd priority registration | 3rd priority registration | 4th priority registration |
|-----------------------------|----------|--|--------|----------|---|---|---------------|---------------------------|---------------------------|---------------------------|---------------------------|
| SEng | | | | | | | | | | | |
| Chemical Engineering | | | | | | | | | | | |
| 1 | ECHE 126 | Introduction to Chemical Engineering | 3 | 6 | | | | | | | |
| 2 | ECHE 222 | Chemistry I | 3 | 6 | | | | | | | |
| 3 | ECHE 319 | Chemical Engineering Thermodynamics | 3 | 6 | | | | | | | |
| 4 | ECHE 321 | Chemistry II | 3 | 6 | | | | | | | |
| 5 | ECHE 331 | Process Control and Optimization | 3 | 6 | | | | | | | |
| 6 | ECHE 333 | Separation Processes-I | 3 | 6 | ECHE 319 Chemical Engineering Thermodynamics (D and above) | | | | | | |
| 7 | ECHE 369 | Transport Phenomena-II | 3 | 6 | | | | | | | |
| 8 | ECHE 418 | Capstone project 1 | 3 | 6 | ECHE 323 Computational methods in Chemical Engineering-I (D and above) | | | | | | |
| 9 | ECHE 419 | Advanced Process Simulation | 3 | 6 | ECHE 323 Computational methods in Chemical Engineering-I (D and above) | ECHE 482 Computational Methods in Chemical Engineering-II (D and above) | | | | | |
| 10 | ECHE 482 | Computational Methods in Chemical Engineering-II | 3 | 6 | ECHE 319 Chemical Engineering Thermodynamics (D and above) AND ECHE 333 Separation Processes-I (D and above) AND ECHE 383 Separation Processes II (D and above) AND ECHE 481 Chemical Reaction Engineering (D and above) AND ECHE 323 Computational methods in Chemical Engineering-I (D and above) | | | | | | |
| 11 | ECHE 484 | Multi-Phase Flows | 3 | 6 | ECHE 319 Chemical Engineering Thermodynamics (D and above) AND ECHE 270 Transport Phenomena-I (D and above) | | | | | | |
| 12 | MCHE 613 | Physical Chemistry of Oil & Gas | 1.5 | 3 | | | | | | | |

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|--------------------------|----------|---|-----|---|--|--|--|--|--|--|
| 13 | MCHE 614 | Applied Chemical Engineering Thermodynamics | 1.5 | 3 | | | | | | |
| 14 | MCHE 615 | Advanced Unit Operations | 1.5 | 3 | | | | | | |
| 15 | MCHE 616 | Advanced Chemical Reactor Engineering | 1.5 | 3 | ECHE 481 Chemical Reaction Engineering (D and above) | | | | | |
| 16 | MCHE 618 | Plant Economics and Planning | 1.5 | 3 | | | | | | |
| 17 | MCHE 619 | Safety Engineering and Loss Prevention | 1.5 | 3 | | | | | | |
| Civil Engineering | | | | | | | | | | |
| 18 | ECE 215 | Surveying | 3 | 6 | | | | | | |
| 19 | ECE 216 | Civil Engineering CAD | 3 | 6 | | | | | | |
| 20 | ECE 217 | Structural Analysis I | 3 | 6 | BENG 117 Engineering Mechanics (D and above) | | | | | |
| 21 | ECE 300 | Hydraulic Systems | 3 | 6 | | | | | | |
| 22 | ECE 303 | Construction Management and Practice | 3 | 6 | BENG 148 Engineering Practice (D and above) | | | | | |
| 23 | ECE 307 | Engineering Geology and Rock Mechanics | 3 | 6 | | | | | | |
| 24 | ECE 314 | Structural Engineering Applications I | 3 | 6 | ECE 213 Structural Engineering Analysis (D and above) OR ECE 217 Structural Analysis I (D and above) | | | | | |
| 25 | ECE 401 | Capstone Project 1 | 3 | 6 | | | | | | |
| 26 | ECE 404 | Construction Technologies and Processes | 3 | 6 | BENG 148 Engineering Practice (D and above) AND ECE 302 Civil Engineering Materials (D and above) | | | | | |
| 27 | ECE 416 | Highway Engineering | 3 | 6 | ECE 302 Civil Engineering Materials (D and above) | | | | | |
| 28 | ECE 473 | Environmental Systems | 3 | 6 | | | | | | |
| 29 | EMEM 502 | Decision Models | 1.5 | 3 | | | | | | |
| 30 | EMEM 505 | Operations Management | 1.5 | 3 | | | | | | |
| 31 | EMEM 507 | Project Management | 3 | 6 | | | | | | |
| 32 | EMEM 509 | Systems Engineering | 3 | 6 | | | | | | |
| 33 | EMEM 513 | Entrepreneurship | 2 | 4 | | | | | | |
| 34 | EMEM 519 | Product Development | 1.5 | 3 | | | | | | |
| 35 | EMEM 522 | Quality Management | 1.5 | 3 | | | | | | |

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| 36 | EMEM 523 | Supply Chain Management | 3 | 6 | | | | | | | |
| 37 | EMEM 528 | Information Systems Mananegement | 1.5 | 3 | | | | | | | |
| 38 | EMEM 530 | Technology Assessment | 1.5 | 3 | | | | | | | |
| 39 | EMEM 533 | Engineering Management and Engineering Economy | 3 | 6 | | | | | | | |
| 40 | MCE 601 | Sustainable Development | 3 | 6 | | | | | | | |
| 41 | MCE 604 | Advanced Project Management | 3 | 6 | | | | | | | |
| 42 | MCE 606 | Environmental Impacts and Assessments | 3 | 6 | | | | | | | |
| 43 | MSC 615 | Advanced Statistics and Probability | 3 | 6 | | | | | | | |
| 44 | MSC 616 | Research Methods | 3 | 6 | | | | | | | |
| Electrical and Electronic Engineering | | | | | | | | | | | |
| 45 | EEE 238 | Digital Signal and Image Processing | 3 | 6 | | | | | | | |
| 46 | EEE 250 | Microelectronic Devices and Circuits | 3 | 6 | BENG 114 Introduction to Electrical Systems (D and above) | | | | | | |
| 47 | EEE 251 | Electronic Engineering Design Principles | 3 | 6 | BENG 114 Introduction to Electrical Systems (D and above) | | | | | | |
| 48 | EEE 341 | Digital Electronic System Design | 3 | 6 | | | | | | | |
| 49 | EEE 342 | Electromagnetics | 3 | 6 | | | | | | | |
| 50 | EEE 343 | Embedded Microcontrollers | 3 | 6 | | | | | | | |
| 51 | EEE 345 | Power Electronics | 3 | 6 | | | | | | | |
| 52 | EEE 382 | Antennas and Propagation | 3 | 6 | | | | | | | |
| 53 | EEE 435 | Digital Communications | 3 | 6 | | | | | | | |
| 54 | EEE 437 | Capstone Project 1 | 3 | 6 | | | | | | | |
| 55 | EEE 448 | Power Transmission and Distribution plants | 3 | 6 | | | | | | | |
| 56 | EEE 450 | RF and Microwave Circuit Design | 3 | 6 | | | | | | | |
| 57 | EEE 451 | High Voltage Engineering | 3 | 6 | | | | | | | |
| 58 | EEE 452 | Power Systems Protection | 3 | 6 | | | | | | | |
| 59 | MEE 600 | MSc Thesis in Electrical and Electronics Engineering | 15 | 30 | | | | | | | |
| 60 | MEE 607 | Statistical Signal Processing | 3 | 6 | | | | | | | |
| 61 | MEE 608 | Special Topics in Circuits Theory | 3 | 6 | | | | | | | |
| Mechanical Engineering | | | | | | | | | | | |

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| 62 | EME 253 | Computer Aided Engineering | 3 | 6 | | | | | | | |
| 63 | EME 254 | Mechanics of Materials | 3 | 6 | | | | | | | |
| 64 | EME 352 | Computational Fluid Dynamics | 3 | 6 | | | | | | | |
| 65 | EME 357 | Fluid Mechanics 2 | 3 | 6 | | | | | | | |
| 66 | EME 358 | Heat Transfer | 3 | 6 | BENG 226 Engineering Thermodynamics (D and above) AND EME 275 Fluid Mechanics I (D and above) | | | | | | |
| 67 | EME 361 | Machine Design | 3 | 6 | | | | | | | |
| 68 | EME 451 | Capstone project 1 | 3 | 6 | | | | | | | |
| 69 | EME 464 | Materials and Manufacturing 1 | 3 | 6 | | | | | | | |
| 70 | EME 467 | Vehicle Propulsion Systems | 3 | 6 | | EME 456 Feasibility Analysis of Clean Energy Technologies (C- and above) | | | | | |
| 71 | EME 485 | Applied Statistics and Probability | 3 | 6 | EME 485 Applied Statistics and Probability (D and above) | | | | | | |
| 72 | EME 486 | Oscillations of mechanical systems | 3 | 6 | | | | | | | |
| 73 | MME 600 | MSc Thesis in Mechanical Engineering | 15 | 30 | | | | | | | |
| 74 | MME 604 | Engineering Mathematics | 3 | 6 | | | | | | | |
| 75 | MME 605 | Numerical Techniques for Engineers | 3 | 6 | | | | | | | |
| 76 | MME 606 | Advanced Control Systems | 3 | 6 | | | | | | | |
| School of Engineering | | | | | | | | | | | |
| 77 | BENG 117 | Engineering Mechanics | 3 | 6 | | | | | | | |
| 78 | BENG 124 | Engineering Mathematics I | 3 | 6 | | | | | | | |
| 79 | BENG 145 | Occupal & Environment Health and Safety | 3 | 6 | | | | | | | |
| 80 | BENG 146 | Programming for Engineers | 3 | 6 | | | | | | | |
| 81 | BENG 201 | Engineering Economy | 3 | 6 | | | | | | | |
| 82 | BENG 215 | Sensors and Actuators | 3 | 6 | | | | | | | |
| 83 | BENG 221 | Engineering Materials | 3 | 6 | | | | | | | |
| 84 | BENG 228 | Engineering Mathematics III | 3 | 6 | BENG 124 Engineering Mathematics I (D and above) AND BENG 225 Engineering Mathematics II (D and above) | | | | | | |
| 85 | BENG 405 | Project Management | 3 | 6 | | | | | | | |
| 86 | DENG 782 | Personal and Professional Skills Development | 3 | 6 | | | | | | | |
| 87 | DENG 785 | PhD proposal oral defence | 0 | 0 | | | | | | | |

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| 88 | DENG 794 | Dissertation Research | 12 | 24 | DENG 785 PhD proposal oral defence (C- and above) | | | | | | |
| SST | | | | | | | | | | | |
| Biological Science | | | | | | | | | | | |
| 89 | BIOL 101 | Biology for non-Science majors | 3 | 6 | | | | | | | |
| 90 | BIOL 110 | Modern Biology I with Lab | 4 | 8 | | | BIOL 110 Modern Biology I (C- and above) OR BIOL 110 Modern Biology I Lab (C- and above) | 1 year UG SST | SST | SHSS | |
| 91 | BIOL 230 | Human Anatomy and Physiology I | 4 | 8 | ((BIOL 110 Modern Biology I (C- and above) AND BIOL 110 Modern Biology I Lab (C- and above)) OR BIOL 110 Modern Biology I with Lab (C- and above) OR PREM 110 Pre-med Biology I with lab (C- and above) AND ((BIOL 120 Modern Biology II (C- and above) AND BIOL 120 Modern Biology II Lab (C- and above)) OR BIOL 120 Modern Biology II with Lab (C- and above)) | | | Biological Sciences | SST | SHSS | |
| 92 | BIOL 305 | Introduction to Microbiology with Lab | 4 | 8 | ((BIOL 110 Modern Biology I (C- and above) AND BIOL 110 Modern Biology I Lab (C- and above)) OR BIOL 110 Modern Biology I with Lab (C- and above) OR PREM 110 Pre-med Biology I with lab (C- and above) AND (BIOL 120 Modern Biology II with Lab (C- and above) OR (BIOL 120 Modern Biology II (C- and above) AND BIOL 120 Modern Biology II Lab (C- and above))) | | | Biological Sciences | SST | SHSS | |

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|----|----------|---|---|---|---|--|---------------------|-----|------|--|
| 93 | BIOL 320 | Developmental Biology with Lab | 4 | 8 | ((BIOL 110 Modern Biology I (C- and above) AND BIOL 110 Modern Biology I Lab (C- and above)) OR PREM 110 Pre-med Biology I with lab (C- and above) OR BIOL 110 Modern Biology I with Lab (C- and above)) AND (BIOL 120 Modern Biology II with Lab (C- and above) OR (BIOL 120 Modern Biology II (C- and above) AND BIOL 120 Modern Biology II Lab (C- and above))) AND ((BIOL 220 Molecular Biology of Cell (C- and above) AND BIOL 220 Molecular Biology of Cell Lab (C- and above)) OR BIOL 301 Molecular Biology of Cell with Lab (C- and above) OR BIOL 231 Human Anatomy and Physiology II (C- and above)) | | Biological Sciences | SST | SHSS | |
| 94 | BIOL 340 | Introduction to Bioinformatics with Lab | 4 | 8 | ((BIOL 110 Modern Biology I (C- and above) AND BIOL 110 Modern Biology I Lab (C- and above)) OR PREM 110 Pre-med Biology I with lab (C- and above) OR BIOL 110 Modern Biology I with Lab (C- and above)) AND (BIOL 120 Modern Biology II with Lab (C- and above) OR (BIOL 120 Modern Biology II (C- and above) AND BIOL 120 Modern Biology II Lab (C- and above))) AND ((BIOL 220 Molecular Biology of Cell (C- and above) AND BIOL 220 Molecular Biology of Cell Lab (C- and above)) OR BIOL 301 Molecular Biology of Cell with Lab (C- and above) OR BIOL 231 Human Anatomy and Physiology II (C- and above)) | | Biological Sciences | SST | SHSS | |

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| 95 | BIOL 352 | Biology of Cancer | 3 | 6 | (BIOL 110 Modern Biology I (C- and above) OR BIOL 110 Modern Biology I with Lab (C- and above) OR PREM 110 Pre-med Biology I with lab (C- and above)) AND (BIOL 120 Modern Biology II (C- and above) OR BIOL 120 Modern Biology II with Lab (C- and above)) AND (BIOL 220 Molecular Biology of Cell (C- and above) OR BIOL 301 Molecular Biology of Cell with Lab (C- and above) OR BIOL 231 Human Anatomy and Physiology II (C- and above)) | | | Biological Sciences | SST | SHSS | |
| 96 | BIOL 355 | Critical Research Reasoning | 3 | 6 | (BIOL 120 Modern Biology II with Lab (C- and above) OR (BIOL 120 Modern Biology II (C- and above) AND BIOL 120 Modern Biology II Lab (C- and above))) AND (BIOL 231 Human Anatomy and Physiology II (C- and above) OR BIOL 301 Molecular Biology of Cell with Lab (C- and above) OR (BIOL 220 Molecular Biology of Cell (C- and above) AND BIOL 220 Molecular Biology of Cell Lab (C- and above))) | | | Biological Sciences | SST | SHSS | |
| 97 | BIOL 399 | Biology Internship - 2B | 3 | 6 | | | | Through Add form only | | | |
| 98 | BIOL 410 | Introduction to Immunology | 3 | 6 | (BIOL 110 Modern Biology I (C- and above) OR BIOL 110 Modern Biology I with Lab (C- and above) OR PREM 110 Pre-med Biology I with lab (C- and above)) AND (BIOL 120 Modern Biology II (C- and above) OR BIOL 120 Modern Biology II with Lab (C- and above)) AND ((BIOL 220 Molecular Biology of Cell (C- and above) OR BIOL 301 Molecular Biology of Cell with Lab (C- and above)) OR BIOL 210 Introduction to Microbiology (C- and above) OR BIOL 231 Human Anatomy and Physiology II (C- and above)) | | | Biological Sciences | SST | SHSS | |
| 99 | BIOL 455 | Biotechnology | 3 | 6 | BIOL 301 Molecular Biology of Cell with Lab (C- and above) | | | Biological Sciences | SST | SHSS | |

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| 100 | BIOL 470 | Advanced Cell Biology | 3 | 6 | BIOL 301 Molecular Biology of Cell with Lab (C- and above) AND BIOL 341 Biochemistry I (C- and above) | | | Biological Sciences | SST | SHSS | |
| 101 | BIOL 490 | Graduation Project 1 | 4 | 8 | | | | Through Add form only | | | |
| 102 | BIOL 501 | Fundamentals of Biological Sciences | 3 | 6 | | | | | | | |
| 103 | BIOL 520 | Statistical Methods in Life Sciences | 3 | 6 | | | | | | | |
| 104 | BIOL 600 | Graduate Seminar Series | 3 | 6 | | | | | | | |
| 105 | BIOL 635 | Hot Topics in Life Sciences | 3 | 6 | | | | | | | |
| 106 | BIOL 670 | Gene Therapy | 3 | 6 | | | | | | | |
| 107 | BIOL 690 | Research Thesis I | 6 | 12 | | | | | | | |
| Chemistry | | | | | | | | | | | |
| 108 | CHEM 090 | Chemistry for Non-Science majors | 3 | 6 | | | | | | | |
| 109 | CHEM 091 | Survey of Physical Science | 3 | 6 | | | | | | | |
| 110 | CHEM 101 | General Chemistry I | 3 | 6 | | | | 1 year UG SST | SST | SHSS | |
| 111 | CHEM 101L | General Chemistry I lab | 1 | 2 | | CHEM 101 General Chemistry I (C and above) | | 1 year UG SST | SST | SHSS | |
| 112 | CHEM 102 | General Chemistry II | 3 | 6 | CHEM 101 General Chemistry I (C and above) | | | Chemistry | SST | SHSS | |
| 113 | CHEM 102L | General Chemistry II lab | 1 | 2 | CHEM 101L General Chemistry I lab (C and above) | CHEM 102 General Chemistry II (C and above) | | Chemistry | SST | SHSS | |
| 114 | CHEM 189c | Independent Study | 3 | 6 | | | | | | | |
| 115 | CHEM 211 | Organic Chemistry I | 3 | 6 | CHEM 102 General Chemistry II (C and above) | | | Chemistry | SST | SHSS | |
| 116 | CHEM 211L | Organic Chemistry I Lab | 2 | 4 | CHEM 102L General Chemistry II lab (C and above) | CHEM 211 Organic Chemistry I (C and above) | | Chemistry | SST | SHSS | |
| 117 | CHEM 212 | Organic Chemistry II | 3 | 6 | CHEM 211 Organic Chemistry I (C and above) OR CHEM 191 Chemistry I for Engineers (C and above) | | | Chemistry | SST | SHSS | |

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| 118 | CHEM 212L | Organic Chemistry II Lab | 2 | 4 | CHEM 211L Organic Chemistry I Lab (C and above) | CHEM 212 Organic Chemistry II (C and above) OR CHEM 292 Organic Chemistry for Biologists II (C and above) | Chemistry | SST | SHSS | |
| 119 | CHEM 220 | Quantitative Chemical Analysis with lab | 4 | 8 | CHEM 102 General Chemistry II (C and above) AND CHEM 102L General Chemistry II lab (C and above) | | Chemistry | SST | SHSS | |
| 120 | CHEM 331 | Physical Chemistry I | 3 | 6 | CHEM 220 Quantitative Chemical Analysis with lab (C and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (C and above) | | Chemistry | SST | SHSS | |
| 121 | CHEM 331L | Physical Chemistry Lab | 1 | 2 | | CHEM 331 Physical Chemistry I (C and above) | Chemistry | SST | SHSS | |
| 122 | CHEM 350 | Descriptive Inorganic Chemistry | 3 | 6 | CHEM 102 General Chemistry II (C and above) | | Chemistry | SST | SHSS | |
| 123 | CHEM 410 | Structural Spectroscopy | 4 | 8 | CHEM 212 Organic Chemistry II (C and above) | | Chemistry | SST | SHSS | |
| 124 | CHEM 431 | Computational Chemistry | 3 | 6 | CHEM 332 Physical Chemistry II (C and above) AND (CSCI 111 Web Programming & Problem Solving (C- and above) OR CSCI 150 Fundamentals of Programming (C- and above) OR CSCI 151 Programming for Scientists and Engineers (C- and above)) | | SST | | | |
| 125 | CHEM 450 | Advanced Inorganic Chemistry | 4 | 8 | CHEM 212 Organic Chemistry II (C and above) AND CHEM 212L Organic Chemistry II Lab (C and above) AND CHEM 350 Descriptive Inorganic Chemistry (C and above) | | Chemistry | SST | SHSS | |
| 126 | CHEM 490 | Nanochemistry | 3 | 6 | CHEM 331 Physical Chemistry I (C and above) AND CHEM 350 Descriptive Inorganic Chemistry (C and above) | | Chemistry | SST | SHSS | |

Computer Science

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|--------------------|----------|--|---|---|---|--|---|------------------|-----|------|--|
| 127 | CSCI 151 | Programming for Scientists and Engineers | 4 | 8 | | | ROBT 102 Programming for robotics and physics (C- and above) OR CSCI 150 Fundamentals of Programming (C- and above) | 1 year UG SST | SST | SHSS | |
| 128 | CSCI 231 | Computer Systems and Organization | 3 | 6 | CSCI 152 Performance and Data Structures (C- and above) | | | Computer Science | SST | SHSS | |
| 129 | CSCI 262 | Software Project Management | 3 | 6 | CSCI 152 Performance and Data Structures (C- and above) | | | Computer Science | SST | SHSS | |
| 130 | CSCI 281 | Human-Computer Interaction | 3 | 6 | CSCI 152 Performance and Data Structures (C- and above) | | | Computer Science | SST | SHSS | |
| 131 | CSCI 325 | Introduction to Parallel Systems and GPU Programming | 3 | 6 | CSCI 332 Operating Systems (C- and above) | | | Computer Science | SST | SHSS | |
| 132 | CSCI 330 | Mobile Computing | 3 | 6 | CSCI 332 Operating Systems (C- and above) | | | Computer Science | SST | SHSS | |
| 133 | CSCI 341 | Database Systems | 3 | 6 | CSCI 152 Performance and Data Structures (C- and above) | | | Computer Science | SST | SHSS | |
| 134 | CSCI 361 | Software Engineering | 3 | 6 | CSCI 152 Performance and Data Structures (C- and above) | | | Computer Science | SST | SHSS | |
| 135 | CSCI 390 | Artificial Intelligence | 3 | 6 | CSCI 152 Performance and Data Structures (C- and above) | | | Computer Science | SST | SHSS | |
| 136 | CSCI 398 | Directed Study | 3 | 6 | | | | | | | |
| 137 | CSCI 408 | Senior Project I | 3 | 6 | | | | CS major only | | | |
| 138 | CSCI 434 | Information Security | 3 | 6 | | CSCI 333 Computer Networks (D and above) | | Computer Science | SST | SHSS | |
| 139 | CSCI 471 | Complexity and Computability | 3 | 6 | MATH 251 Discrete Mathematics (C- and above) | | | Computer Science | SST | SHSS | |
| 140 | CSCI 501 | Software Principles and Practice | 3 | 6 | | | | | | | |
| 141 | CSCI 512 | Information Theory | 3 | 6 | | | | | | | |
| 142 | CSCI 525 | Quantum Computing | 3 | 6 | | | | | | | |
| 143 | CSCI 531 | Distributed Systems | 3 | 6 | | | | | | | |
| 144 | CSCI 545 | Big Data Analytics | 3 | 6 | | | | | | | |
| Mathematics | | | | | | | | | | | |
| 145 | MATH 109 | Mathematical Discovery | 3 | 6 | | | | SHSS | SST | | |
| 146 | MATH 161 | Calculus I | 4 | 8 | | | | 1 year UG SST | SST | SHSS | |

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| 147 | MATH 162 | Calculus II | 4 | 8 | MATH 161 Calculus I (C and above) | | | 3 year UG SHSS, 4 year UG SHSS, SST | SHSS | | |
| 148 | MATH 251 | Discrete Mathematics | 3 | 6 | MATH 162 Calculus II (C and above) | | | Computer Science, Physics, Robotics and Mechatronics, Undeclared | Mathematics, SHSS | | |
| 149 | MATH 263 | Calculus III | 4 | 8 | MATH 162 Calculus II (C and above) | | | 4 year UG SHSS, SST | SHSS | | |
| 150 | MATH 273 | Linear Algebra with Applications | 4 | 8 | MATH 161 Calculus I (C and above) | MATH 162 Calculus II (C and above) | | 4 year UG SHSS, SST | SHSS | | |
| 151 | MATH 274 | Introduction to Differential Equations | 3 | 6 | MATH 162 Calculus II (C and above) AND MATH 273 Linear Algebra with Applications (C and above) | | | 4 year UG SHSS, SST | SHSS | | |
| 152 | MATH 301 | Introduction to Number Theory | 3 | 6 | MATH 273 Linear Algebra with Applications (C- and above) AND MATH 162 Calculus II (C- and above) | | | Mathematics | SHSS, SST | | |
| 153 | MATH 310 | Applied Statistical Methods | 3 | 6 | MATH 161 Calculus I (C- and above) | | SOC 203 Quantitative Methods in Sociology (C- and above) OR PLS 211 Quantitative Methods (C- and above) | 2 year UG SST Biological Sciences, 2 year UG SST Computer Science, 3 year UG SST Biological Sciences, 3 year UG SST Computer Science, 4 year UG SST Biological Sciences, 4 year UG SST Computer Science | Mathematics, SHSS | | |
| 154 | MATH 321 | Probability | 3 | 6 | MATH 162 Calculus II (C and above) | | ECON 211 Economic Statistics (C- and above) OR PLS 211 Quantitative Methods (C- and above) | 4 year UG SHSS, Computer Science, Mathematics | SHSS, SST | | |
| 155 | MATH 351 | Numerical Methods with Applications | 3 | 6 | MATH 274 Introduction to Differential Equations (C- and above) AND MATH 263 Calculus III (C- and above) | | | Mathematics | SHSS, SST | | |

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| 156 | MATH 355 | Introduction to Proofs | 3 | 6 | MATH 162 Calculus II (C- and above) AND MATH 273 Linear Algebra with Applications (C- and above) | | Mathematics | SHSS, SST | | |
| 157 | MATH 361 | Real Analysis I | 3 | 6 | MATH 263 Calculus III (C- and above) | | Mathematics | SHSS, SST | | |
| 158 | MATH 399 | Internship | 3 | 6 | | | | | | |
| 159 | MATH 402 | Abstract Algebra I | 3 | 6 | MATH 273 Linear Algebra with Applications (C- and above) | | Mathematics | SHSS, SST | | |
| 160 | MATH 411 | Linear Programming | 3 | 6 | MATH 273 Linear Algebra with Applications (C- and above) AND MATH 263 Calculus III (C- and above) | | Mathematics | SHSS, SST | | |
| 161 | MATH 425 | Stochastic Processes | 3 | 6 | MATH 321 Probability (C- and above) | | Mathematics | SHSS, SST | | |
| 162 | MATH 440 | Regression Analysis | 3 | 6 | MATH 273 Linear Algebra with Applications (C- and above) AND (MATH 310 Applied Statistical Methods (C- and above) OR MATH 322 Mathematical Statistics (C- and above)) | | Mathematics | SHSS, SST | | |
| 163 | MATH 449 | Statistical Programming | 3 | 6 | MATH 322 Mathematical Statistics (C- and above) | | Mathematics | SHSS, SST | | |
| 164 | MATH 471 | Nonlinear Differential Equations | 3 | 6 | MATH 273 Linear Algebra with Applications (C- and above) AND MATH 274 Introduction to Differential Equations (C- and above) | | Mathematics | SHSS, SST | | |
| 165 | MATH 480 | Complex Analysis | 3 | 6 | MATH 263 Calculus III (C- and above) | | Mathematics | SHSS, SST | | |
| 166 | MATH 481 | Partial Differential Equations | 3 | 6 | | MATH 274 Introduction to Differential Equations (C- and above) AND MATH 480 Complex Analysis (C- and above) | Mathematics | SST | SHSS | |
| Physics | | | | | | | | | | |
| 167 | PHYS 161 | Physics I for Scientists and Engineers with Laboratory | 4 | 8 | | MATH 161 Calculus I (D and above) OR MATH 162 Calculus II (D and above) | PHYS 171 Physics I for Physics Majors with Laboratory (C- and above) | 1 year UG SST | SST | SHSS |
| 168 | PHYS 201 | Introductory Astronomy I | 3 | 6 | MATH 162 Calculus II (C- and above) | | Physics | SHSS, SST | | |

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| 169 | PHYS 221 | Classical Mechanics I | 3 | 6 | PHYS 172 Physics II for Physics Majors with Laboratory (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (C- and above) | MATH 263 Calculus III (D and above) AND MATH 274 Introduction to Differential Equations (D and above) | | Physics | SHSS, SST | | |
| 170 | PHYS 261 | Modern Physics with laboratory | 4 | 8 | MATH 162 Calculus II (C- and above) AND (PHYS 152 Introductory Physics II with Lab (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (C- and above)) | | | Physics | SHSS, SST | | |
| 171 | PHYS 361 | Classical Electrodynamics I | 3 | 6 | (PHYS 172 Physics II for Physics Majors with Laboratory (C- and above) OR PHYS 162 Physics II for Scientists and Engineers with Laboratory (C- and above)) AND MATH 274 Introduction to Differential Equations (C- and above) | PHYS 315 Mathematical Methods of Physics (D and above) OR PHYS 411 Advanced Mathematical Physics (D and above) | | Physics | SHSS, SST | | |
| 172 | PHYS 411 | Advanced Mathematical Physics | 3 | 6 | MATH 274 Introduction to Differential Equations (C- and above) AND PHYS 162 Physics II for Scientists and Engineers with Laboratory (C- and above) | | | Physics | SST | SHSS | |
| 173 | PHYS 452 | Quantum Mechanics II | 3 | 6 | PHYS 451 Quantum Mechanics I (C- and above) | | | Physics | SHSS, SST | | |
| 174 | PHYS 465 | Advanced Experimental Physics | 3 | 6 | | | | Physics | SHSS, SST | | |
| 175 | PHYS 473 | Introduction to Solid State Physics | 3 | 6 | PHYS 280 Thermodynamics and Statistical Physics (C- and above) AND PHYS 451 Quantum Mechanics I (C- and above) | | | Physics | SHSS, SST | | |
| 176 | PHYS 491 | Directed Study of Advanced Physics Topics | 3 | 6 | | | | Through Add form only | | | |
| 177 | PHYS 505 | Classical Mechanics | 3 | 6 | | | | | | | |
| 178 | PHYS 511 | Computational Modeling and Simulation | 3 | 6 | | | | | | | |
| 179 | PHYS 515 | Classical Electrodynamics | 3 | 6 | | | | | | | |
| 180 | PHYS 530 | Solid State Physics | 3 | 6 | | | | | | | |

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|----------------------------------|----------|---|---|---|--|--|--|---------------------------|-----|------|--|
| 181 | PHYS 545 | Advanced Instrumentation Methods | 3 | 6 | | | | | | | |
| 182 | PHYS 550 | Advanced Mathematical Physics | 3 | 6 | | | | | | | |
| 183 | SST 501 | Teaching and Learning | 3 | 6 | | | | | | | |
| 184 | SST 503 | Laboratory Practicum | 3 | 6 | SST 501 Teaching and Learning (C- and above) AND SST 502 Teaching Practicum (C- and above) | | | | | | |
| 185 | SST 591 | Research Methods | 3 | 6 | | | | | | | |
| 186 | SST 693 | Thesis Proposal | 3 | 6 | SST 591 Research Methods (C- and above) | | | | | | |
| Robotics and Mechatronics | | | | | | | | | | | |
| 187 | ROBT 201 | Mechanics: Statics and Dynamics | 3 | 6 | MATH 162 Calculus II (C- and above) AND (PHYS 161 Physics I for Scientists and Engineers with Laboratory (C- and above) OR PHYS 171 Physics I for Physics Majors with Laboratory (C- and above)) | | | Robotics and Mechatronics | SST | SHSS | |
| 188 | ROBT 203 | Electrical and Electronic Circuits I with Lab | 4 | 8 | MATH 162 Calculus II (C- and above) AND (PHYS 162 Physics II for Scientists and Engineers with Laboratory (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (C- and above) OR (PHYS 141 Physics I for non-majors with Lab (C- and above) AND PHYS 142 Physics II for non-majors with Lab (C- and above))) | | | Robotics and Mechatronics | SST | SHSS | |
| 189 | ROBT 205 | Signals and Sensing with Lab | 4 | 8 | MATH 162 Calculus II (C- and above) AND (PHYS 162 Physics II for Scientists and Engineers with Laboratory (C- and above) OR PHYS 172 Physics II for Physics Majors with Laboratory (C- and above)) | | | Robotics and Mechatronics | SST | SHSS | |
| 190 | ROBT 301 | Mechanical Design I with CAD Laboratory | 4 | 8 | ROBT 201 Mechanics: Statics and Dynamics (C- and above) | | | Robotics and Mechatronics | SST | SHSS | |
| 191 | ROBT 303 | Linear Control Theory with Lab | 4 | 8 | ROBT 202 System Dynamics and Modeling (C- and above) AND MATH 274 Introduction to Differential Equations (C- and above) | | | Robotics and Mechatronics | SST | SHSS | |
| 192 | ROBT 305 | Embedded Systems | 3 | 6 | ROBT 206 Microcontrollers with Lab (C- and above) | | | Robotics and Mechatronics | SST | SHSS | |
| 193 | ROBT 307 | Power Electronics | 3 | 6 | ROBT 204 Electrical and Electronic Circuits II with Lab (C- and above) | | | Robotics and Mechatronics | SST | SHSS | |

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|--|-------------------------|--|-----|----|---|--|--|--------------------------------|-----|--|--|
| 194 | ROBT 401 | Robot Dynamics and Control | 3 | 6 | ROBT 303 Linear Control Theory with Lab (C- and above) | | | Robotics and Mechatronics | SST | SHSS | |
| 195 | ROBT 407 | Statistical Methods and Machine Learning | 3 | 6 | MATH 273 Linear Algebra with Applications (C- and above) | | | Robotics and Mechatronics | SST | SHSS | |
| 196 | ROBT 501 | Robot Manipulation and Mobility | 3 | 6 | | | | | | | |
| 197 | ROBT 503 | Dynamic Systems and Control | 3 | 6 | | | | | | | |
| 198 | ROBT 605 | Robotic Motion Planning | 3 | 6 | ROBT 501 Robot Manipulation and Mobility (C- and above) AND CSCI 501 Software Principles and Practice (C- and above) | | | | | | |
| 199 | ROBT 611 | Industrial Robotics | 3 | 6 | ROBT 501 Robot Manipulation and Mobility (C- and above) AND CSCI 501 Software Principles and Practice (C- and above) | | | | | | |
| SHSS | | | | | | | | | | | |
| Area Studies | | | | | | | | | | | |
| 200 | EAS 500 | Introduction to Eurasia | 4 | 8 | | | | | | | |
| 201 | EAS 501 | General Methodology | 4 | 8 | | | | | | | |
| 202 | EAS 503 | Thesis I | 7.5 | 15 | EAS 500 Introduction to Eurasia (C- and above) AND EAS 501 General Methodology (C- and above) AND EAS 502 Disciplinary Methodology (C- and above) | | | | | | |
| Area Studies, Political Science and International Relations, Sociology and Anthropology | | | | | | | | | | | |
| 203 | SOC 514/PLS 514/EAS 506 | Qualitative Research Methods | 4 | 8 | | | | | | | |
| Communication and Composition | | | | | | | | | | | |
| 204 | COMM 220 | Media History | 3 | 6 | | | | | | | |
| 205 | COMM 270 | Introduction to Public Relations | 3 | 6 | | | | | | | |
| 206 | SHSS 150 | Rhetoric and Composition | 3 | 6 | | | | 1 year UG SHSS, 2 year UG SHSS | SST | 3 year UG SEng Civil Engineering, SHSS | |
| 207 | SHSS 230 | Rhetoric & Style in Academic Writing | 3 | 6 | SHSS 150 Rhetoric and Composition (C- and above) | | | | | | |
| 208 | SHSS 250 | Advanced Rhetoric and Composition | 3 | 6 | SHSS 150 Rhetoric and Composition (C- and above) | | | SHSS | SST | 3 year UG SEng Civil Engineering | |
| 209 | SHSS 301 | SHSS Internship Second Experience | 3 | 6 | | | | Through Add form only | | | |

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| 210 | SHSS 390 | Writing Fellows I - Composition and Collaboration in Theory and Practice | 3 | 6 | SHSS 150 Rhetoric and Composition (C- and above) | | | Through Add form only | | | |
| Economics | | | | | | | | | | | |
| 211 | ECON 101 | Introduction to Microeconomics | 3 | 6 | | | | 1 year UG SHSS | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 212 | ECON 102 | Introduction to Macroeconomics | 3 | 6 | | | | 1 year UG SHSS | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 213 | ECON 201 | Intermediate Microeconomics | 3 | 6 | ECON 101 Introduction to Microeconomics (C and above) AND (MATH 161 Calculus I (C and above) OR MATH 162 Calculus II (C and above)) | | | 2 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 214 | ECON 202 | Intermediate Macroeconomics | 3 | 6 | ECON 102 Introduction to Macroeconomics (C and above) AND (MATH 161 Calculus I (C and above) OR MATH 162 Calculus II (C and above)) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 215 | ECON 300 | Research Assistance in Economics | 1 | 2 | ECON 101 Introduction to Microeconomics (C- and above) AND ECON 102 Introduction to Macroeconomics (C- and above) | | | Through Add form only | | | |
| 216 | ECON 301 | Econometrics I | 3 | 6 | ECON 211 Economic Statistics (C- and above) OR (MATH 321 Probability (C- and above) AND (MATH 322 Mathematical Statistics (C- and above) OR MATH 310 Applied Statistical Methods (C- and above))) | | | 3 year UG SHSS Economics, 4 year UG SHSS Economics | 2 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 217 | ECON 305 | Advanced Microeconomics | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) | ECON 211 Economic Statistics (D and above) | ECON 398 General Special Topics in Economics (C- and above) | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 218 | ECON 320 | Money and Banking | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 219 | ECON 321 | Economic Growth | 3 | 6 | ECON 202 Intermediate Macroeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 220 | ECON 327 | Energy Economics | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |

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|-----|----------|--|---|---|--|--|--|--------------------------|---|---|--|
| 221 | ECON 329 | International Finance | 3 | 6 | ECON 202 Intermediate Macroeconomics (C- and above) | | | | | | |
| 222 | ECON 341 | Economic Simulation Modeling | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 223 | ECON 345 | The Economics of Family | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 224 | ECON 399 | Independent Study in Economics | 3 | 6 | | | | | | | |
| 225 | ECON 403 | Introduction to Contract Theory and Auctions | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) AND ECON 301 Econometrics I (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 226 | ECON 415 | Industrial Organization | 3 | 6 | ECON 301 Econometrics I (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 227 | ECON 416 | Empirical Industrial Organization | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) AND ECON 301 Econometrics I (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 228 | ECON 443 | Topics in Macroeconomic Theory | 3 | 6 | ECON 202 Intermediate Macroeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 229 | ECON 445 | Public Finance | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) AND ECON 301 Econometrics I (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 230 | ECON 451 | Topics in Microeconomics | 3 | 6 | ECON 201 Intermediate Microeconomics (C- and above) | | | 4 year UG SHSS Economics | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 231 | ECON 501 | Microeconomics I | 4 | 8 | | | | | | | |
| 232 | ECON 502 | Macroeconomics I | 4 | 8 | | | | | | | |
| 233 | ECON 503 | Introduction to Contract Theory and Auctions | 4 | 8 | | | | | | | |
| 234 | ECON 511 | Statistics | 4 | 8 | | | | | | | |
| 235 | ECON 512 | Mathematical Economics | 4 | 8 | | | | | | | |
| 236 | ECON 516 | Empirical Industrial Organization | 4 | 8 | ECON 501 Microeconomics I (C- and above) AND ECON 531 Econometrics (C- and above) | | | | | | |
| 237 | ECON 532 | Applied Econometrics | 4 | 8 | | | | | | | |
| 238 | ECON 543 | Topics in Macroeconomic Theory | 4 | 8 | ECON 502 Macroeconomics I (C- and above) | | | | | | |

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|--|----------|---|---|---|---|--|--|---|--|--|--|
| 239 | ECON 545 | Public Finance | 4 | 8 | ECON 501 Microeconomics I (C- and above) OR ECON 413 Econometrics II (C- and above) OR ECON 531 Econometrics (C- and above) | | | | | | |
| 240 | ECON 551 | Topics in Microeconomic Theory | 4 | 8 | ECON 501 Microeconomics I (C- and above) | | | | | | |
| History, Philosophy and Religious Studies | | | | | | | | | | | |
| 241 | HST 100 | History of Kazakhstan | 3 | 6 | | | | 4 year UG SENG, 4 year UG SHSS, 4 year UG SST | 1 year UG SENG, 1 year UG SHSS, 1 year UG SST | SEng, SHSS, SST | |
| 242 | HST 123 | Introduction to the History of Science and Technology | 3 | 6 | | | | 1 year UG SHSS, History | 1 year UG SST | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 243 | HST 124 | Introduction to the History of Medicine | 3 | 6 | | | | 1 year UG SHSS, History | 1 year UG SST | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 244 | HST 182 | East Asian History II (from 1500) | 3 | 6 | | | | 1 year UG SHSS, History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 245 | HST 199 | Freshman Seminar | 3 | 6 | | | | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 246 | HST 212 | Coins, cotton, and cocoons: Global trade and Eurasian materiality (ca. 1500-1850) | 3 | 6 | Subject "HST" BETWEEN 100 and 199 | | | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 247 | HST 232 | Russian History from Rurik to Catherine the Great | 3 | 6 | | | | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 248 | HST 313 | From Columbus to AIDS: Sex and Disease in the Modern World | 3 | 6 | | | | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 249 | HST 322 | Technology and Modernity | 3 | 6 | | | | 3 year UG SHSS, History | 4 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 250 | HST 498 | Directed Reading | 3 | 6 | | | | Through Add form only | | | |
| 251 | PHIL 110 | The Good Life in Practice | 3 | 6 | | | | 1 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | | |

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| 252 | PHIL 240 | Formal Logic | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 253 | PHIL 320 | Truth, Knowledge and Belief | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 254 | PHIL 360 | Philosophy of Artificial Intelligence | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 255 | REL 410 | Buddhism in Central Asia | 3 | 6 | Subject "REL" BETWEEN 100 and 199 | | | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 256 | REL 510 | Buddhism in Central Asia | 4 | 8 | | | | | | | |
| History, Philosophy and Religious Studies, History, Philosophy and Religious Studies | | | | | | | | | | | |
| 257 | HST 341/REL 341 | Eastern Christianity | 3 | 6 | | | REL 240 Christian Religious Traditions (C- and above) | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 258 | REL 320/HST 320 | The Crusades | 3 | 6 | Subject "HST" BETWEEN 100 and 199 | | | History | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| History, Philosophy and Religious Studies, Languages, Literature and Linguistics | | | | | | | | | | | |
| 259 | WLL 102 /PHIL 102 | Language, Experience, Culture | 3 | 6 | | | | 1 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST | |
| History, Philosophy and Religious Studies, Political Science and International Relations | | | | | | | | | | | |
| 260 | PLS 328/REL 328 | Confucianism and the Development of Chinese Politics | 3 | 6 | | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| History, Philosophy and Religious Studies, Sociology and Anthropology | | | | | | | | | | | |
| 261 | ANT 313/REL 332 | Islam and Politics in Eurasia | 3 | 6 | | | | 3 year UG SHSS, 4 year UG SHSS, Anthropology, Sociology | SHSS | 3 year UG SEng Civil Engineering, SST | |
| Kazakh Language and Turkic Studies | | | | | | | | | | | |
| 262 | KAZ 101 | Basic Kazakh I | 3 | 6 | KLL "Basic I" | | | | | | |
| 263 | KAZ 105 | Basic Kazakh II | 3 | 6 | KLL "Basic II" | | | | | | |
| 264 | KAZ 111 | Intermediate Kazakh I | 3 | 6 | KLL "Intermediate I" | | | | | | |
| 265 | KAZ 114 | Intermediate Kazakh II | 3 | 6 | KLL "Intermediate II" | | | | | | |
| 266 | KAZ 121 | Upper-Intermediate Kazakh | 3 | 6 | KLL "Upper-Intermediate" | | | | | | |

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| 267 | KAZ 211 | Academic Speaking in Kazakh | 3 | 6 | KAZ 202 Academic Kazakh II (C- and above) | | | | | | |
| 268 | KAZ 212 | Academic Writing in Kazakh | 3 | 6 | KLL "Advanced" OR KLL "Upper-Intermediate" | | | | | | |
| 269 | KAZ 263 | Business Etiquette | 3 | 6 | KLL "Upper-Intermediate" OR KLL "Advanced" | | | | | | |
| 270 | KAZ 313 | Kazakh for Business | 3 | 6 | KLL "Advanced" OR KLL "Upper-Intermediate" | | | | | | |
| 271 | KAZ 314 | Speech Culture in Business | 3 | 6 | KLL "Upper-Intermediate" OR KLL "Advanced" | | | | | | |
| 272 | KAZ 351 | Kazakh Short Stories | 3 | 6 | KLL "Advanced" OR KLL "Upper-Intermediate" | | | | | | |
| 273 | KAZ 356 | Kazakh Music History | 3 | 6 | KLL "Advanced" | | | | | | |
| 274 | KAZ 357 | Literature of Alash | 3 | 6 | KLL "Advanced" OR KLL "Upper-Intermediate" | | | | | | |
| 275 | KAZ 358 | Technique of Translation | 3 | 6 | KLL "Upper-Intermediate" OR KLL "Advanced" | | | | | | |
| 276 | KAZ 362 | Creative Writing in Kazakh Language | 3 | 6 | KLL "Upper-Intermediate" OR KLL "Advanced" | | | | | | |
| 277 | KAZ 363 | Language and Globalization | 3 | 6 | KLL "Upper-Intermediate" OR KLL "Advanced" | | | | | | |
| 278 | KAZ 364 | Kazakh for Civil Service | 3 | 6 | KLL "Advanced" OR KLL "Upper-Intermediate" OR KAZ 314 Speech Culture in Business (C- and above) | | | | | | |
| 279 | KAZ 365 | Abai's World | 3 | 6 | KLL "Advanced" | | | | | | |
| 280 | KAZ 366 | Kazakh Language for Engineers | 3 | 6 | KLL "Advanced" OR KLL "Upper-Intermediate" | | | | | | |
| 281 | KAZ 373 | Kazakh Terminology | 3 | 6 | KLL "Advanced" OR KAZ 202A Kazakh Literature 2/K(C) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (C- and above) OR KAZ 212 Academic Writing in Kazakh (C- and above) | | | | | | |
| 282 | KAZ 374 | Kazakh Diplomacy | 3 | 6 | KAZ 202A Kazakh Literature 2/K(C) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (C- and above) OR KAZ 212 Academic Writing in Kazakh (C- and above) OR KLL "Advanced" | | | | | | |

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| 283 | KAZ 375 | Cultural Studies and Kazakh Culture | 3 | 6 | KLL "Advanced" OR KAZ 202A Kazakh Literature 2/K(C) (C- and above) OR KAZ 211 Academic Speaking in Kazakh (C- and above) OR KAZ 212 Academic Writing in Kazakh (C- and above) | | | | | |
| Kazakh Language and Turkic Studies, Languages, Literature and Linguistics | | | | | | | | | | |
| 284 | LING 280/TUR 280 | Introduction to Turkic Historical and Comparative Linguistics | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | |
| Languages, Literature and Linguistics | | | | | | | | | | |
| 285 | CHN 101 | Beginning Mandarin I | 4 | 8 | | | | 1 year UG SHSS, World Languages, Literature and Culture | 1 year UG SST, 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 286 | CHN 102 | Beginning Mandarin II | 4 | 8 | CHN 101 Beginning Mandarin I (B- and above) | | | 2 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST |
| 287 | FRE 101 | Beginning French I | 4 | 8 | | | | 1 year UG SHSS, World Languages, Literature and Culture | 1 year UG SST, 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 288 | FRE 201 | Intermediate French I | 4 | 8 | FRE 102 Beginning French II (C- and above) | | | SHSS | 3 year UG SEng Civil Engineering, SST | |
| 289 | GER 101 | Beginning German | 4 | 8 | | | | 1 year UG SHSS, World Languages, Literature and Culture | 1 year UG SST, 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 290 | LING 131 | Introduction to Linguistics | 3 | 6 | | | | 1 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST |
| 291 | LING 273 | Survey of Research Methods in Linguistics | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | |
| 292 | LING 374 | Language Contact in Central Asia | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | |

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|---|-----------------|--|---|---|---|--|--|---|---------------------------------------|---|--|
| 293 | SPA 101 | Beginning Spanish I | 4 | 8 | | | | 1 year UG SHSS, World Languages, Literature and Culture | 1 year UG SST, 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 294 | SPA 201 | Intermediate Spanish I | 4 | 8 | SPA 102 Beginning Spanish II (C- and above) | | | SHSS | SEng, SST | | |
| 295 | WLL 101 | Introduction to Critical Issues in the Humanities and Social Sciences | 3 | 6 | | | | SHSS | SEng, SST | | |
| 296 | WLL 110 | Introduction to Literary Studies | 3 | 6 | | | | 1 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST | |
| 297 | WLL 111 | Introduction to Theatre | 3 | 6 | | | | 1 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST | |
| 298 | WLL 155 | Introduction to the Comic Book | 3 | 6 | | | | 1 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST | |
| 299 | WLL 201 | World Literature I | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 300 | WLL 247 | Survey of East Asian Literature | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 301 | WLL 321 | Creative Writing/Theatre - Intermediate/Advanced | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 302 | WLL 333 | Literary Modernism: Writing the Futility and Anarchy of Contemporary History | 3 | 6 | Subject "WLL" BETWEEN 200 and 299 | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 303 | WLL 498 | Languages, Linguistics, and Literatures Capstone I | 3 | 6 | | | | Through Add form only | | | |
| Languages, Literature and Linguistics, Languages, Literature and Linguistics | | | | | | | | | | | |
| 304 | SPA 258/WLL 258 | Literature and The Spanish Civil War | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 305 | SPA 260/WLL 260 | The Spanish American Short Story | 3 | 6 | Subject "WLL" BETWEEN 100 and 199 | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |

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|--|-----------------------|---|---|---|--|--|--|---|--|--|--|
| 306 | SPA 281/WLL 281 | Survey of 20th Century Spanish Literature | 3 | 6 | | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| 307 | SPA 351/WLL 351 | Literature and Film of the Postcolonial World | 3 | 6 | Subject "WLL" BETWEEN 200 and 299 | | | SHSS | 3 year UG SEng Civil Engineering, SST | | |
| Languages, Literature and Linguistics, Sociology and Anthropology | | | | | | | | | | | |
| 308 | ANT 277/WLL 271 | Language and Society | 3 | 6 | | | | 1 year UG SHSS, 2 year UG SHSS, Anthropology | SHSS | 3 year UG SEng Civil Engineering, SST | |
| Political Science and International Relations | | | | | | | | | | | |
| 309 | PLS 101 | Introduction to Political Science | 3 | 6 | | | | 1 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 310 | PLS 120 | Introduction to Political Theory | 3 | 6 | | | | 1 year UG SHSS | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 311 | PLS 140 | Introduction to Comparative Politics | 3 | 6 | | | | 1 year UG SHSS | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 312 | PLS 150 | Introduction to International Relations | 3 | 6 | | | | 1 year UG SHSS | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 313 | PLS 210 | Political Science Research Methods | 3 | 6 | | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 314 | PLS 211 | Quantitative Methods | 3 | 6 | | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 315 | PLS 315 | Political Game Theory | 3 | 6 | PLS 211 Quantitative Methods (C- and above) OR ECON 211 Economic Statistics (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 316 | PLS 325 | Ancient Political Theory | 3 | 6 | PLS 120 Introduction to Political Theory (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |

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|-----|---------|--|---|---|--|--|--|---|---|---|--|
| 317 | PLS 340 | Politics of East Asia | 3 | 6 | PLS 140 Introduction to Comparative Politics (C- and above) OR PLS 150 Introduction to International Relations (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 318 | PLS 351 | International Political Economy | 3 | 6 | PLS 150 Introduction to International Relations (C- and above) AND PLS 210 Political Science Research Methods (C- and above) AND PLS 211 Quantitative Methods (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 319 | PLS 360 | Foreign Policy Analysis | 3 | 6 | PLS 150 Introduction to International Relations (C- and above) AND PLS 211 Quantitative Methods (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 320 | PLS 412 | Scientific Research in International Relations | 3 | 6 | PLS 150 Introduction to International Relations (C- and above) AND PLS 210 Political Science Research Methods (C- and above) AND PLS 211 Quantitative Methods (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 321 | PLS 415 | Maximum Likelihood Models | 3 | 6 | PLS 210 Political Science Research Methods (C- and above) OR PLS 211 Quantitative Methods (C- and above) | | | Political Science and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | | |
| 322 | PLS 432 | Comparative Democratization | 3 | 6 | PLS 140 Introduction to Comparative Politics (C- and above) OR PLS 150 Introduction to International Relations (C- and above) | | | 4 year UG SHSS Political Sciences and International Relations | 3 year UG SHSS Political Sciences and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 323 | PLS 441 | Advanced Topics in Comparative Politics | 3 | 6 | PLS 140 Introduction to Comparative Politics (C- and above) AND PLS 210 Political Science Research Methods (C- and above) | | | 4 year UG SHSS Political Sciences and International Relations | 3 year UG SHSS Political Sciences and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 324 | PLS 458 | International Organization | 3 | 6 | PLS 150 Introduction to International Relations (C- and above) AND PLS 210 Political Science Research Methods (C- and above) | | | 4 year UG SHSS Political Sciences and International Relations | 3 year UG SHSS Political Sciences and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 325 | PLS 465 | Politics of International Finance | 3 | 6 | PLS 150 Introduction to International Relations (C- and above) AND PLS 210 Political Science Research Methods (C- and above) | | | 4 year UG SHSS Political Sciences and International Relations | 3 year UG SHSS Political Sciences and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |

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| 326 | PLS 469 | International Relations of Eurasia | 3 | 6 | PLS 150 Introduction to International Relations (C- and above) AND PLS 210 Political Science Research Methods (C- and above) | | | 4 year UG SHSS Political Sciences and International Relations | 3 year UG SHSS Political Sciences and International Relations | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 327 | PLS 495 | Research Practicum in PSIR | 1 | 2 | PLS 210 Political Science Research Methods (C- and above) AND PLS 211 Quantitative Methods (C- and above) | | | | | | |
| 328 | PLS 511 | Advanced Research I | 4 | 8 | | | | | | | |
| 329 | PLS 512 | Scientific Research in International Relations | 4 | 8 | PLS 511 Advanced Research I (C- and above) AND PLS 510 Advanced Research II (C- and above) AND PLS 550 Core Seminar in IR (C- and above) | | | | | | |
| 330 | PLS 513 | Research and Writing in Political Science | 4 | 8 | | | | | | | |
| 331 | PLS 515 | Maximum Likelihood Models | 4 | 8 | PLS 510 Advanced Research II (C- and above) | | | | | | |
| 332 | PLS 532 | Comparative Democratization | 4 | 8 | PLS 540 Core Seminar in Comparative Politics (C- and above) | | | | | | |
| 333 | PLS 540 | Core Seminar in Comparative Politics | 4 | 8 | | | | | | | |
| 334 | PLS 541 | Advanced Topics in Comparative Politics | 4 | 8 | | | | | | | |
| 335 | PLS 550 | Core Seminar in IR | 4 | 8 | | | | | | | |
| 336 | PLS 551 | Advanced Topics in International Relations | 4 | 8 | | | | | | | |
| 337 | PLS 565 | Politics of International Finance | 4 | 8 | | | | | | | |
| 338 | PLS 569 | International Relations of Eurasia | 4 | 8 | | | | | | | |
| Sociology and Anthropology | | | | | | | | | | | |
| 339 | ANT 101 | Introduction to Sociocultural Anthropology | 3 | 6 | | | | 1 year UG SHSS, Anthropology | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 340 | ANT 140 | World Prehistory | 3 | 6 | | | | 1 year UG SHSS, Anthropology | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |
| 341 | ANT 160 | Introduction to Biological Anthropology | 3 | 6 | | | | 1 year UG SHSS, Anthropology | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST | |

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|-----|---------|---|---|---|--|--|--|---|----------------|---|
| 342 | ANT 180 | Being Human: An Introduction to Four Field Anthropology | 3 | 6 | | | ANT 101 Introduction to Sociocultural Anthropology (C- and above) OR ANT 140 World Prehistory (C- and above) OR ANT 160 Introduction to Biological Anthropology (C- and above) | 1 year UG SHSS, Anthropology | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 343 | ANT 216 | Marriage and Kinship | 3 | 6 | | | | 1 year UG SHSS, 2 year UG SHSS, Anthropology | SHSS | 3 year UG SEng Civil Engineering, SST |
| 344 | ANT 232 | Life, Death and Economy: Archaeology of Central Asia | 3 | 6 | | | | 2 year UG SHSS, Anthropology | 1 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 345 | ANT 399 | Special Topics in Anthropology | 3 | 6 | | | | 3 year UG SHSS, 4 year UG SHSS, Anthropology, Sociology | SHSS | 3 year UG SEng Civil Engineering, SST |
| 346 | ANT 400 | Research Assistance in Anthropology | 1 | 2 | SOC 201 Social Science Research Methods (C- and above) OR SOC 203 Quantitative Methods in Sociology (C- and above) OR SOC 214/ANT 214 Qualitative Methods (C- and above) | | | Through Add form only | | |
| 347 | SOC 101 | Introduction to Sociology | 3 | 6 | | | | 1 year UG SHSS, 2 year UG SHSS | SHSS | 3 year UG SEng Civil Engineering, SST |
| 348 | SOC 115 | Global Social Problems | 3 | 6 | | | | 1 year UG SHSS, Sociology | 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 349 | SOC 203 | Quantitative Methods in Sociology | 3 | 6 | SOC 201 Social Science Research Methods (C- and above) OR PLS 210 Political Science Research Methods (C- and above) | | | Anthropology, Sociology | SHSS | 3 year UG SEng Civil Engineering, SST |
| 350 | SOC 221 | International Migration | 3 | 6 | | | | Sociology | SHSS | 3 year UG SEng Civil Engineering, SST |

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| 351 | SOC 227 | Economy and Society | 3 | 6 | | | | Sociology | Economics | 3 year UG SEng Civil Engineering, SHSS, SST |
| 352 | SOC 301 | Classical Sociological Theory | 3 | 6 | SOC 101 Introduction to Sociology (C- and above) OR SOC 115 Global Social Problems (C- and above) | | | Anthropology, Sociology | 3 year UG SHSS, 4 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 353 | SOC 310 | Social Inequality | 3 | 6 | SOC 101 Introduction to Sociology (C- and above) OR SOC 115 Global Social Problems (C- and above) | | | Anthropology, Sociology | 3 year UG SHSS, 4 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 354 | SOC 314 | Organizations and Society | 3 | 6 | SOC 101 Introduction to Sociology (C- and above) OR SOC 115 Global Social Problems (C- and above) | | | Anthropology, Sociology | SHSS | 3 year UG SEng Civil Engineering, SST |
| 355 | SOC 399 | Special Topics in Sociology | 3 | 6 | | | | Anthropology, Sociology | 3 year UG SHSS, 4 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| 356 | SOC 400 | Research Assistance in Sociology | 1 | 2 | SOC 201 Social Science Research Methods (C- and above) OR SOC 203 Quantitative Methods in Sociology (C- and above) OR SOC 214/ANT 214 Qualitative Methods (C- and above) | | | Through Add form only | | |
| Sociology and Anthropology, Sociology and Anthropology | | | | | | | | | | |
| 357 | SOC 212/ANT 285 | Food and Society | 3 | 6 | | | | Anthropology, Sociology | 1 year UG SHSS, 2 year UG SHSS | 3 year UG SEng Civil Engineering, SHSS, SST |
| CPS | | | | | | | | | | |
| NUFYP | | | | | | | | | | |
| 358 | FEAP 001 | English for Academic Purposes | 0 | 0 | | | | | | |
| 359 | FHUM 001 | Humanities | 0 | 0 | | | | | | |
| 360 | FMATH 001 | Mathematics | 0 | 0 | | | | | | |
| 361 | FSCIEN 001 | Sciences | 0 | 0 | | | | | | |
| GSB | | | | | | | | | | |
| GSB | | | | | | | | | | |
| 362 | MBA 01 | Consequential Leadership | 1 | 2 | | | | | | |
| 363 | MBA 02 | Business Mathematics and Business Computer Application | 1 | 2 | | | | | | |
| 364 | MBA 03 | Financial Accounting | 2 | 4 | | | | | | |
| 365 | MBA 04 | Probability and Statistics | 2 | 4 | | | | | | |

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| 366 | MBA 05 | Business Communication | 2 | 4 | | | | | | | |
| 367 | MBA 07 | Managerial Effectiveness | 2 | 4 | | | | | | | |
| 368 | MBA 08 | Managerial Economics | 2 | 4 | | | | | | | |
| 369 | MBA 09 | Marketing Management | 2 | 4 | | | | | | | |
| 370 | MBA 18 | Financial Statement Analysis | 2 | 4 | | | | | | | |
| 371 | MBA 19 | Distinguished Speaker Series | 0 | 1 | | | | | | | |
| 372 | MBA 20 | Practicum Project | 2.5 | 5 | | | | | | | |
| 373 | MBAE 1 | Investments | 2 | 4 | | | | | | | |
| 374 | MBAE 6 | International Finance | 2 | 4 | | | | | | | |
| 375 | MBAE 7 | Supply Chain Management | 2 | 4 | | | | | | | |
| 376 | MBAE 8 | Leadership | 2 | 4 | | | | | | | |
| 377 | MBAE 9 | Marketing Strategy | 2 | 4 | | | | | | | |
| GSPP | | | | | | | | | | | |
| GSPP | | | | | | | | | | | |
| 378 | MPA 602 | Public Administration in Theory and Practice | 4 | 8 | | | | | | | |
| 379 | MPA 603 | Economic Applications for Public Managers | 4 | 8 | | | | | | | |
| 380 | MPA 605 | Research Methods for Decision Making | 4 | 8 | | | | | | | |
| 381 | MPA 608 | Strategic Management and Leadership | 4 | 8 | | | | | | | |
| 382 | MPA 609 | Human Resource Management | 3 | 6 | | | | | | | |
| 383 | MPA 611 | Benefit Cost Analysis | 4 | 8 | | | | | | | |
| 384 | MPA 613 | Economic and Social Policy | 3 | 6 | | | | | | | |
| 385 | MPA 614 | Comparative Economic Development | 3 | 6 | | | | | | | |
| 386 | MPA 699 | Master's Project with Overseas Component | 0 | 0 | | | | | | | |
| 387 | MPP 601 | Microeconomics and Public Policy | 4 | 8 | | | | | | | |
| 388 | MPP 611 | Statistical Techniques for Public Policy | 4 | 8 | | | | | | | |
| 389 | MPP 612 | Public Policy Research and Evaluation | 4 | 8 | | | | | | | |
| 390 | MPP 621 | Introduction to Public Policy and Analysis | 4 | 8 | | | | | | | |
| 391 | MPP 625 | Central Asian politics: Comparative Analysis | 4 | 8 | | | | | | | |
| 392 | MPP 631 | Politics and Public Policy | 4 | 8 | | | | | | | |
| 393 | MPP 636 | Weapons of Mass Destruction Nonproliferation and Disarmament | 4 | 8 | | | | | | | |

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| 394 | MPP 639 | International Financial Policy | 4 | 8 | | | | | | | |
| 395 | MPP 671 | Game Theory and Public Policy | 4 | 8 | | | | | | | |
| 396 | MPP 683 | Energy Systems and Climate Policy | 4 | 8 | | | | | | | |
| GSE | | | | | | | | | | | |
| GSE | | | | | | | | | | | |
| 397 | EDHE 609 | Introduction to Educational Leadership: Higher Education | 3 | 6 | | | | | | | |
| 398 | EDIE 609 | Introduction to Educational Leadership: Inclusive Education | 3 | 6 | | | | | | | |
| 399 | EDML 601 | Introduction to Linguistics | 3 | 6 | | | | | | | |
| 400 | EDML 610 | Foundations of Multilingual Education | 3 | 6 | | | | | | | |
| 401 | EDML 613 | The Multilingual School | 3 | 6 | | | | | | | |
| 402 | EDML 620 | Language and Literacy Development | 3 | 6 | | | | | | | |
| 403 | EDML 621 | Principles and Methods of Language Education in Multilingual Contexts | 3 | 6 | | | | | | | |
| 404 | EDML 623 | Globalization and Language Education | 3 | 6 | | | | | | | |
| 405 | EDML 690 | Thesis Research I | 3 | 6 | | | | | | | |
| 406 | EDSE 609 | Introduction to Educational Leadership: School Education | 3 | 6 | | | | | | | |
| 407 | EDSE 620 | Perspectives on Inclusive Education | 3 | 6 | | | | | | | |
| 408 | EDSE 621 | Education Policy Analysis and Development | 3 | 6 | | | | | | | |
| 409 | EDSE 624 | Psychology of Learning (Children as Learners) | 3 | 6 | | | | | | | |
| 410 | EDSE 630 | Professional Identity | 3 | 6 | | | | | | | |
| 411 | EDSE 634 | Assessment: Theories, policies, practices | 3 | 6 | | | | | | | |
| 412 | EDSE 636 | Preparing Children for the Future: Skills and Employability | 3 | 6 | | | | | | | |
| 413 | EDUC 500 | English Language Preparation | 0 | 0 | | | | | | | |
| 414 | EDUC 502 | English for Research | 3 | 6 | | | | | | | |
| 415 | EDUC 505 | Academic English 1 | 1.5 | 3 | | | | | | | |
| 416 | EDUC 510 | Advanced English for Education Professionals I | 3 | 6 | | | | | | | |
| 417 | EDUC 512 | English for Thesis Writing I | 3 | 6 | | | | | | | |
| 418 | EDUC 573 | Academic Writing in Kazakh | 3 | 6 | | | | | | | |

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| 419 | EDUC 590 | Academic English Writing for Doctoral Students I | 1.5 | 3 | | | | | | | |
| 420 | EDUC 600 | Research Methods I | 3 | 6 | | | | | | | |
| 421 | EDUC 600 | Research Methods II | 3 | 6 | | | | | | | |
| 422 | EDUC 602 | Educational Context and Reform in Kazakhstan | 3 | 6 | | | | | | | |
| 423 | EDUC 640 | Thesis Seminar (Part I) | 1.5 | 3 | | | | | | | |
| 424 | EDUC 640 | Thesis Seminar (Part II) | 3 | 6 | | | | | | | |
| 425 | EDUC 701 | Education Research Methods | 3 | 6 | | | | | | | |
| 426 | EDUC 710 | Educational Studies in Context | 3 | 6 | | | | | | | |
| 427 | EDUC 712 | Educational Policy and Reform | 3 | 6 | | | | | | | |
| 428 | EDUC 720 | Philosophy of Education | 3 | 6 | | | | | | | |
| 429 | EDUC 731 | Proposal Defence | 3 | 6 | | | | | | | |
| 430 | EDUC 740 | Doctoral Seminar | 3 | 6 | | | | | | | |
| 431 | EDUC 750 | Dissertation Research | 9 | 18 | | | | | | | |
| 432 | EDUC 800 | International Study | 12 | 24 | | | | | | | |
| Other | | | | | | | | | | | |
| GSPP | | | | | | | | | | | |
| 433 | T-PP 5136 | Applied Public Sector Economics | 4 | 8 | | | | | | | |
| 434 | T-PP 5147 | Asian Global Cities | 4 | 8 | | | | | | | |
| 435 | T-PP 5168 | Public Service Leadership | 4 | 8 | | | | | | | |
| 436 | T-PP 5178 | Leadership and Decision-Making Skills | 4 | 8 | | | | | | | |
| History, Philosophy and Religious Studies | | | | | | | | | | | |
| 437 | T-HIST 1228 | Survey of US History Since 1865 | 3 | 6 | | | | | | | |
| Languages, Literature and Linguistics | | | | | | | | | | | |
| 438 | T- 17191 | Artists, Patrons and Academies in Early Modern Europe | 3 | 6 | | | | | | | |
| 439 | T- 17266 | Literature and Culture of English Speaking Countries: The 19th Century I | 3 | 6 | | | | | | | |
| 440 | T- 17319 | Techniques and Languages in English Narrative | 3 | 6 | | | | | | | |
| 441 | T- 205512 | Narrativa Espanola actual: novela y cuento | 3 | 6 | | | | | | | |
| 442 | T- 205514 | El espanol y su cultura | 3 | 6 | | | | | | | |
| Physics | | | | | | | | | | | |
| 443 | T-SCI 1600 | Physics for Liberal Studies | 3 | 6 | | | | | | | |
| Political Science and International Relations | | | | | | | | | | | |

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| 444 | T-PLSI 3250 | Electoral Behavior/Political Parties | 3 | 6 | | | | | | | |
| 445 | T-PLSI 3320 | Government and Politics: China | 3 | 6 | | | | | | | |
| 446 | T-PPA 2008 | American Government and Public Administration | 3 | 6 | | | | | | | |
| SoM | | | | | | | | | | | |
| Public Health | | | | | | | | | | | |
| 447 | PUBH 501 | Principles of Public Health Problem Solving | 3 | 6 | | | | | | | |
| 448 | PUBH 511 | Inferential Biostatistics | 3 | 6 | | | | | | | |
| 449 | PUBH 521 | Principles of Analytical Epidemiology | 3 | 6 | | | | | | | |
| 450 | PUBH 528 | Qualitative Research Methods | 3 | 6 | | | | | | | |
| 451 | PUBH 531 | Emerging Infectious Diseases | 3 | 6 | | | | | | | |