

**Course Requirements and Registration Priorities
School of Sciences and Humanities (Master), Fall 2021**

| # | Abbr | Title | Cr(US) | Cr(ECTS) | PreRequisite | CoRequisite | AntiRequisite | 1st priority registration | 2nd priority registration | 3rd priority registration | 4th priority registration |
|--|-------------------------|--|--------|----------|--|-------------|---------------|--|-------------------------------------|--------------------------------|---------------------------|
| SSH | | | | | | | | | | | |
| Area Studies | | | | | | | | | | | |
| 1 | EAS 500 | Introduction to Eurasia | 4 | 8 | | | | Eurasian Studies | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 2 | EAS 501 | General Methodology | 4 | 8 | | | | Eurasian Studies | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 3 | EAS 502 | Disciplinary Methodology | 4 | 8 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| 4 | EAS 503 | Thesis I | 7.5 | 15 | EAS 500 Introduction to Eurasia (1632) (C- and above) AND EAS 501 General Methodology (1633) (C- and above) AND EAS 502 Disciplinary Methodology (1379) (C- and above) | | | 2 year Gr SSH Eurasian Studies | | | |
| 5 | EAS 512 | Topics in Eurasian Studies | 4 | 8 | | | | | | | |
| 6 | EAS 513 | Critical Issues in Eurasian Studies | 4 | 8 | | | | | | | |
| 7 | EAS 514 | Topics in Eurasian Social Sciences | 4 | 8 | | | | | | | |
| Area Studies, Political Science and International Relations, Sociology and Anthropology | | | | | | | | | | | |
| 8 | SOC 514/PLS 514/EAS 506 | Qualitative Research Methods | 4 | 8 | | | | Eurasian Studies | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| Biological Science | | | | | | | | | | | |
| 9 | BIOL 520 | Statistical Methods in Life Sciences | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 10 | BIOL 550 | Structural and Molecular Biology in Health and Disease | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 11 | BIOL 560 | Molecular Biology of Prokaryotic Cells | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |

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| 12 | BIOL 592 | Graduate Research Seminar | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 13 | BIOL 599 | Master's Thesis Research | 0 | 0 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 14 | BIOL 631 | Synthetic Biology | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 15 | BIOL 632 | Drug Discovery and Design | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 16 | BIOL 634 | Advanced Cancer Biology | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 17 | BIOL 670 | Gene Therapy | 3 | 6 | | | | Biological Sciences | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 18 | BIOL 691 | Master's Thesis Research Proposal | 3 | 6 | | | | 2 year Gr SSH Biological Sciences and Technologies | | | |
| Chemistry | | | | | | | | | | | |
| 19 | CHEM 510 | Principles of Physical Chemistry | 3 | 6 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 20 | CHEM 518 | Applied Polymer Science | 4 | 8 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 21 | CHEM 520 | Applied Analytical Chemistry | 3 | 6 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 22 | CHEM 522 | Analytical Environmental Chemistry | 3 | 6 | CHEM 520 Applied Analytical Chemistry (5267) (C and above) | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 23 | CHEM 530 | Inorganic Structures and Reaction Mechanisms | 3 | 6 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 24 | CHEM 531 | Nanochemistry and Functional Nanomaterials | 3 | 6 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 25 | CHEM 541 | Medicinal Chemistry and Drug Design | 3 | 6 | CHEM 540 Organic Reactions and Mechanisms (5460) (C and above) | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 26 | CHEM 543 | Structural Identification of Organic Compounds | 3 | 6 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 27 | CHEM 591 | Scientific Methods in Chemistry | 3 | 6 | | | | Chemistry | SSH | GSB, GSE, GSPP, SEDS, SMG, SoM | |
| 28 | CHEM 691 | Thesis Proposal | 3 | 6 | | | | Chemistry | | | |
| Communication and Composition | | | | | | | | | | | |
| 29 | WCS 501 | Science Communication | 3 | 6 | | | | SMG, SSH, SoM | | | |
| Economics | | | | | | | | | | | |
| 30 | ECON 501 | Microeconomics I | 4 | 8 | | | | Economics | SEDS, SMG, SSH, SoM | | |

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| 31 | ECON 502 | Macroeconomics I | 4 | 8 | | | Economics | SEDS, SMG, SSH, SoM | | |
| 32 | ECON 503 | Introduction to Contract Theory and Auctions | 4 | 8 | | | Economics | SEDS, SMG, SSH, SoM | | |
| 33 | ECON 511 | Statistics | 4 | 8 | | | Economics | SEDS, SMG, SSH, SoM | | |
| 34 | ECON 512 | Mathematical Economics | 4 | 8 | | | Economics | SEDS, SMG, SSH, SoM | | |
| 35 | ECON 515 | Industrial Organization | 4 | 8 | ECON 531 Econometrics (2505) (C- and above) | | Economics | SEDS, SMG, SSH, SoM | | |
| 36 | ECON 532 | Applied Econometrics | 4 | 8 | | | Economics | SEDS, SMG, SSH, SoM | | |
| 37 | ECON 589 | Thesis I | 4 | 8 | | | 2 year Gr SSH Economics | | | |
| Mathematics | | | | | | | | | | |
| 38 | MATH 510 | Measure Theory and Applications | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 39 | MATH 517 | Scientific Modeling and Simulation with Mathematics | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 40 | MATH 519 | Scientific Computing | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 41 | MATH 540 | Statistical Learning | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 42 | MATH 551 | Advanced Numerical Methods | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 43 | MATH 571 | Advanced Nonlinear Differential Equations | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 44 | MATH 592 | Research Seminar | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 45 | MATH 680 | Potential Theory and Polynomial Approximation | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 46 | MATH 682 | Applied Functional Analysis | 3 | 6 | | | Applied Mathematics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| Physics | | | | | | | | | | |
| 47 | PHYS 505 | Classical Mechanics | 3 | 6 | | | Physics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 48 | PHYS 511 | Computational Modeling and Simulation | 3 | 6 | | | Physics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 49 | PHYS 515 | Classical Electrodynamics | 3 | 6 | | | Physics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 50 | PHYS 530 | Solid State Physics | 4 | 8 | | | Physics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 51 | PHYS 550 | Advanced Mathematical Physics | 3 | 6 | | | Physics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |

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| 52 | PHYS 591 | Research Methods | 3 | 6 | | | | Physics | SEDS, SSH | GSB, GSE, GSPP, SMG, SoM | |
| 53 | PHYS 600 | Thesis Research | 0 | 0 | | | | Physics | | | |
| Political Science and International Relations | | | | | | | | | | | |
| 54 | PLS 511 | Advanced Research I | 4 | 8 | | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 55 | PLS 516 | Experimental Political Science | 4 | 8 | PLS 511 Advanced Research I (1631) (C- and above) | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 56 | PLS 533 | Homeland Security | 4 | 8 | | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 57 | PLS 540 | Core Seminar in Comparative Politics | 4 | 8 | | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 58 | PLS 548 | Comparative Electoral System | 4 | 8 | | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 59 | PLS 549 | Politics and Governance of the Gulf | 4 | 8 | | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 60 | PLS 550 | Core Seminar in IR | 4 | 8 | | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 61 | PLS 558 | International Organization | 4 | 8 | PLS 550 Core Seminar in IR (1372) (C- and above) | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 62 | PLS 559 | International Conflict Processes | 4 | 8 | PLS 550 Core Seminar in IR (1372) (C- and above) AND PLS 511 Advanced Research I (1631) (C- and above) | | | Political Science and International Relations | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | |
| 63 | PLS 598 | MA Thesis I | 6 | 12 | | | | Instructor's Permission Required. Registration through Add Course form only! | | | |
| Sociology and Anthropology | | | | | | | | | | | |
| 64 | ANT 506 | Anthropology of Performance | 4 | 8 | | | ANT 306 Anthropology of Performance (1459) (D and above) | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | | |
| 65 | ANT 521 | Sport and Construction of Identity | 4 | 8 | | | | GSB, GSE, GSPP, SEDS, SMG, SSH, SoM | | | |