| Course # | Title | Backup faculty | Spring 23 | Summer 23 | Fall 23 | Winter 24 | Spring 24 | Summer 24 | Fall 24 | Winter 25 | Spring 25 | Summer 25 | Fall 25 | Winter 26 | Spring 26 | Summer 26 | Fall 26 | Winter 27 | Spring 27 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GEOS 170A1 | Earth Stories: Interpreting Our Dynamic Planet | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. |
| GEOS 170A1 UArizona Online | Earth Stories: Interpreting Our Dynamic Planet Online | | | | Pepper, M. (1st 7.5 weeks) | | | | Pepper, M. (1st 7.5 weeks) | | | | Pepper, M. (1st 7.5 weeks) | | | | Pepper, M. (1st 7.5 weeks) | | |
| GEOS 170C | Life on Earth | | Jukar, A. | | | | Jukar, A. | | | | Jukar, A. | | | | Jukar, A. | | | | Jukar, A. |
| GEOS 195D | A Sense of Place | Pelletier | Sheppard, P. & Huckleberry, G. | | | | Sheppard, P. & Huckleberry, G. | | | | | | | | | | | | |
| GEOS 197E | Research Experiences in Geochronology | | | | | | | | | | | | | | | | | | |
| GEOS 212 | Introduction to Oceanography | Thompson | Thirumalai, K. (in person)/Goodman, P. (online) | Goodman 3-week Presession & Summer 2 (5-week) | Russell, J. & Goodman, P. | | Goodman, P. (online) | Goodman 3-week Presession & Summer 2 (5-week) | Russell, J. & Goodman, P. | | Thirumalai, K. (in person)/Goodman, P. (online) | Goodman 3-week Presession & Summer 2 (5-week) | Russell, J. & Goodman, P. | | Goodman, P. (online) | Goodman 3-week Presession & Summer 2 (5-week) | Russell, J. & Goodman, P. | | Thirumalai, K. (in person)/Goodman, P. (online) |
| GEOS 216 | Dinosaurs | | | | Jukar, A. | | Jukar, A. | | Jukar, A. | | Jukar, A. | | Jukar, A. | | Jukar, A. | | Jukar, A. | | Jukar, A. |
| GEOS 216 UArizona Online | Dinosaurs UArizona Online | | Pepper, M. (1st 7.5 weeks) | Pepper, M. (Summer I 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (1st 7.5 weeks) | Pepper, M. (Summer I 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (1st 7.5 weeks) | Pepper, M. (Summer I 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (1st 7.5 weeks) | Pepper, M. (Summer I 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (1st 7.5 weeks) |
| GEOS 218 (icourse) | Natural Disasters | | Goodman, P. | | Goodman, P. | | Goodman, P. | | Goodman, P. | | Goodman, P. | | Goodman, P. | | Goodman, P. | | Goodman, P. | | Goodman, P. |
| GEOS 218 UArizona Online | Natural Disasters UArizona Online | | Pepper, M. (2nd 7.5 weeks) | Pepper, M. (Summer II 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (2nd 7.5 weeks) | Pepper, M. (Summer II 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (2nd 7.5 weeks) | Pepper, M. (Summer II 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (2nd 7.5 weeks) | Pepper, M. (Summer II 7.5 weeks) | Pepper, M. (2nd 7.5 weeks) | Pepper, M. | Pepper, M. (2nd 7.5 weeks) |
| GEOS 220 | Environmental History of the Southwest | | | | Sheppard, P. | | | | Sheppard, P. | | | | LTRR faculty | | | | LTRR faculty | | |
| GEOS 222 | The Beauty of Landscapes | | | | | | | | Pelletier, J. | | | | | | | | Pelletier, J. | | |
| GEOS 240 | National Parks: A Window Through Earth's Geological Processes (Honors) | Pelletier | | | | | | | | | | | Carrapa, B. | | | | | | |
| GEOS 251 | Physical Geology | Kapp, P. | Rezeau, H. & Quade, J. | | Gehrels, G. | | Rezeau, H. | | Gehrels, G. | | Rezeau, H. | | Gehrels, G. | | Rezeau, H. | | | | Rezeau, H. |
| GEOS 251 | Physical Geology iCourse | | | Pepper, M. (Presession) | | | | Pepper, M. (Presession) | | | | Pepper, M. (Presession) | | | | Pepper, M. (Presession) | | | |
| GEOS 255 | Historical Geology | Pelletier | | | | | | | | | Carrapa, B. | | | | Gehrels, G. | | | | Carrapa, B. |
| GEOS 260 | Introduction to Gems and Minerals | | | | Mallik, A. | | | | Lieb, S. | | | | Mallik, A. | | | | Lieb, S. | | |
| GEOS 270 | Planetary Geoscience | | | | | | Moitra, P. | | | | Moitra, P. | | | | Moitra, P. | | | | Moitra, P. |
| GEOS 275 | Tree-Ring Time Machines | | | | Black, B. | | | | Black, B. | | | | Black, B. | | | | Black, B. | | |
| GEOS 280 | Programming and Data Analysis in the Earth Sciences | | | | Harig, C. | | | | McGuire, L. | | | | Harig, C. | | | | McGuire, L. | | |
| GEOS 285 | Intro to Python in Geosciences | | Lofverstrom, M. | | | | Yin, J. | | | | Lofverstrom, M. | | | | Lofverstrom, M. | | | | Lofverstrom, M. |
| GEOS 300 | Earth Surface Processes | | McGuire, L. | | | | Pelletier, J. | | | | McGuire, L. | | | | Pelletier, J. | | | | McGuire, L. |
| GEOS 302 | Stratigraphy and Sedimentation | | | | Cohen, A. | | | | Cohen, A. | | | | Cohen, A. | | | | Cohen. A. | | |
| GEOS 304 | Structural Geology | | Hughes, A. | | | | Kapp, P. | | | | Hughes, A. | | | | Kapp, P. | | | | Hughes, A. |
| GEOS 306 | Mineralogy | | | | Moitra, P. | | | | Ibanez-Mejia, M. | | | | Moitra, P. | | | | Ibanez-Mejia, M. | | |
| GEOS 308 | Paleontology | | Jukar, A. | | | | Cohen A. & Thirumalai, K. | | | | Jukar, A. | | | | Cohen, A. | | | | Jukar, A. |
| GEOS 322 | Introduction to Geophysics | | | | | | Kiser, E. | | | | Kiser, E. | | | | Kiser, E. | | | | Kiser, E. |
| GEOS 342 | History of Earth's Climate | Thompson | | | Tierney, J. | | | | Lofverstrom, M. | | | | Tierney, J. | | | | Lofverstrom, M. | | |
| GEOS 346 | Mineral and Energy Resources | | | | Rezeau, H. | | | | Geos faculty/TBD | | | | Geos faculty/TBD | | | | Rezeau, H. | | |
| GEOS 356 | Petrology | | Ducea, M. | | | | Ducea, M. | | | | Mallik, A. | | | | Ducea, M. | | | | Mallik, A. |
| GEOS 397A | Teaching Geosciences | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. | | Kapp, J. |
| GEOS 400/500 | Introduction to Geochemistry | | Quade, J., & Ibanez-Mejia, M. | | | | Quade, J., & Ibanez-Mejia, M. | | | | Ibanez-Mejia, M., & Reiners, P. | | | | Quade, J., Ibanez-Mejia, M., & Reiners, P. | | | | Quade, J., Ibanez-Mejia, M., & Reiners, P. |
| GEOS 405 | Accessible Earth | | | | | | | Persaud, P. | | | | | | | | Persaud, P. | | | |
| GEOS 408/508 | Tectonic Petrology | | Ducea, M. | | | | Ducea, M. | | | | Ducea, M. | | | | Ducea, M. | | | | Ducea, M. |
| GEOS 412A | Ocean Sciences | Cohen | Tierney. J. | | | | Thompson, D.M. | | | | Tierney, J. | | | | Thompson, D.M. | | | | Tierney, J. |
| GEOS 412B | Ocean Sciences Field Course | Cohen | Tierney, J. | | | | Thompson, D.M. | | | | Tierney, J. | | | | Thompson, D.M. | | | | Tierney, J. |
| GEOS 414 | Geology Field Camp | | | Quade, J.,Kapp, P., Rezeau, H., & Ibanez-Mejia, M. | | | | DeCelles, P., Carrapa, B., & others TBD | | | | DeCelles, P., Kapp, P., & others TBD | | | | Geos faculty/TBD | | | |
| GEOS 415 | Geologic Hazards | | | | | | | | Baker, V. &/or McGuire, L. | | | | | | | | | | |
| GEOS 417/517 | Sedimentary Basin Analysis | | | | | | | | Carrapa, B. | | | | | | | | Carrapa, B. or DeCelles, P. | | |
| GEOS 418 | Geometallurgy | | | | | | | | | | | | | | | | | | |
| GEOS 419/519 | Physics of the Earth | | | | | | Harig, C. | | | | | | | | Harig, C. | | | | |
| GEOS 421/521 | Petroleum Geology and Geophysics (to be renamed Energy Geosciences) | | | | | | | | | | | | | | | | | | |
| GEOS 423/523 | Regional Structural Geology | | Kapp, P. | | | | | | | | Kapp, P. | | | | | | | | |
| GEOS 425/525 | Regional Tectonics | | | | | | | | Kapp, P. | | | | | | Ducea, M. | | | | |
| GEOS 427/527 | Orogenic Systems | | Beck, S. | | | | Beck, S. | | | | Beck, S. | | | | | | | | |
| GEOS 430/530 | Chemical Evolution of Earth | | | | | | Ducea, M. | | | | | | | | | | | | |
| GEOS 432/532 | Intro to Seismology | | | | Persaud, P. | | | | Beck, S. | | | | Persaud, P. | | | | Persaud, P. | | |
| GEOS 434A/534A | Exploration Seismology | | | | Hughes, A. | | | | Hughes, A. | | | | Hughes, A. | | | | Hughes, A. | | |
| GEOS 436/536 | Earthquakes and Volcanic Systems: Processes and Hazards | | | | | | | | Kiser, E. | | | | | | | | | | |
| GEOS 437/537 | Intro to Earth Sytem Modeling | | | | Lofverstrom, M. | | | | | | | | Lofverstrom, M. | | | | | | |
| GEOS 439A/539A | Intro to Dendrochronology | | | | Tree Ring Faculty (TBD) | | | | | | | | | | | | | | |
| GEOS 440/540 | Geodynamics (Chris H. will offer as needed) | | | | | | | | | | | | | | | | | | |
| GEOS 446/546 | Economic Mineral Deposits | | Barton, M. | | Barton, M. | | | | Rezeau, H. | | | | Geos faculty/TBD | | | | Rezeau, H. | | |
| GEOS 450/550 | Geomorphology and Landscape Evolution | | | | | | | | | | Pelletier, J. | | | | McGuire, L. | | | | |
| GEOS 453/553 | Glacial and Quat Geology | | | | | | | | | | | | | | | | | | |
| GEOS 456/556 | Thrust Belts and Synorogenic Sediments (P. DeCelles will offer as needed) | | | | | | | | | | | | | | | | | | |
| GEOS 460/560 | Characterization and Identification of Minerals | | | | | | | | | | | | | | | | | | |
| GEOS462/562 | Petrology of Gems | | Mallik, A. & Ruiz, J. | | | | | | | | Mallik, A. | | | | | | | | |
| GEOS 466/566 | Stable Isotope Geochem, Paleoclimate | | | | Quade, J. & Thirumalai, K. | | | | | | | | Quade, J. & Thirumalai, K. | | | | | | |
| GEOS 469/569 | Seismic Data Processing (E. Kiser will offer as needed) | | | | | | | | | | | | | | | | | | |
| GEOS 470L/570L | Volcanology: Laboratory | | | | | | Hamilton, C. | | | | | | | | Hamilton, C. | | | | |
| GEOS 470R/570R | Volcanology: Physical Processes and Petrologic Applications | | | | | | Hamilton, C. | | | | | | | | Hamilton, C. | | | | |
| GEOS 474A/574A | Geochronology & Thermochronology | | | | | | Ibanez-Mejia, M. & Reiners, P. | | | | | | | | Ibanez-Mejia, M. & Reiners, P. | | | | |
| GEOS 477/577 | Active Tectonics | | Hughes, A. | | | | Hughes, A. | | Persaud, P. | | | | | | Hughes, A. | | Persaud, P. | | |
| GEOS 478/578 | Global Change | Thompson | | | Russell, J. & Saleska, S. | | | | Russell, J. & Saleska, S. | | | | Russell, J. & Saleska, S. | | | | Russell, J. & Saleska, S. | | |
| GEOS 479/579 | Intro to Climate Dynamics | | Yin, J. | | Yin, J. | | | | | | | | | | Yin, J. | | | | Yin, J. |
| GEOS 482/582 | Paleoclimatology (482 will need to be put on the books) | Thompson | | | Thirumalai, K. | | | | Thirumalai, K. | | | | | | | | Thirumalai, K. | | |
| GEOS 482A/582A | Mineralogy for Resource Geology | | | | Mazdab, F. | | | | Mazdab, F. | | | | Mazdab, F. | | | | Mazdab, F. | | |
| GEOS 482B/582B | Petrology and Geochemistry for Resource Geology (course proposal pending) | | | | | | Mazdab, F. Barton, M. | | | | Mazdab, F. Codeço, M. | | | | Mazdab, F. Codeço, M. | | | | Mazdab, F. Codeço, M. |
| GEOS 483/583 | Modes of Climate Variability | | Thompson, D.M. | | | | | | | | Thompson, D.M. | | Quade, J. | | | | | | Thompson, D.M. |
| GEOS 484/584 | Coevolution of Earth and the Biosphere | | | | Quade, J. | | | | | | | | | | | | | | |
| GEOS 486/586 | Organic Geochemistry | | | | | | | | | | | | | | | | | | |
| GEOS 487/587 | Physical and Dynamical Oceanography | | | | | | | | | | | | Yin, J. | | | | Yin, J. | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GEOS 489/589 | Quaternary Geochronology | | | | | | | | | | | | | |
| GEOS 497C/597C | Dendrochronology Workshop | | | | | | | | | | | | | |
| GEOS 497I/597I | Practical Dendroclimatology | | | Towner, R. 3-week Presession | | | | | | | | | | |
| GEOS 497J/597J | Dendroarchaeology | | | Towner, R. 3-week Presession | | | | | | | | | | |
| GEOS 497K/597K | Dendroecology | | | | | | | | | | | | | |
| GEOS 502 | Analytical and Numerical Modeling in Geosciences | | | | Pelletier, J. | | | | | Pelletier, J. | | | | |
| GEOS 504B | Ore Deposits Mapping (short course) | | | | Rezeau, H. & Barton, M. | | | Rezeau, H. & Barton, M. | | Rezeau, H. | | | Rezeau, H. | |
| GEOS 504C | Mineral deposit types (short course) | | | | Barton, M. | | | Barton, M. | | | | | | |
| GEOS 504D | Geological Inputs | | Barton, I.F. | | | | Codeço, M. | | | | | | | |
| GEOS 509 | Advanced Petrology | | | | | | | | | | | | | |
| GEOS 514 | Quaternary Geology | | | | | | | | | | | | | |
| GEOS 528 | Crustal Deformation | | | | | | | | | | | | | |
| GEOS 543C | Geologic Best Practices | | | | | | | | | | | | | |
| GEOS 543D | Sustainable Development and Mineral Resources | | | | | | | | | | | | | |
| GEOS 544 | Advanced Physical Sed | | | | | | | | | | | | | |
| PTYS/GEOS 549 | Radar Remote Sensing of Planetary Surfaces (PTYS will do RCS) | | | | | | Holt, J. | | | | Holt, J. | | | Holt, J. |
| GEOS/PTYS 565 | Geophysical Field Methods | | | | | | | Holt, J. | | | | Holt, J. | | |
| GEOS 567 | Inverse Problems in Geophysics (C. Harig will teach as needed) | | Harig, C. | | | | | | | | | | | |
| GEOS 568 | Advanced Seismology (E. Kiser will offer as needed) | | | | | | | | | | | | | |
| GEOS 572 | Global Biogeochem Cycles | | | | Leavitt, S. | | | | | Leavitt, S. | | | | |
| GEOS 573 | Earth System Modeling | | | | | | | | | | | | | |
| GEOS 585A | Applied Time Series Analysis | | | | | | | | | | | | | |
| GESO 595A | Colloquium | | Thiurmalai, K. & Ibanez-Mejia, M. | | Determined by DH committee assignment | | | Determined by DH committee assignment | | Determined by DH committee assignment | | | Determined by DH committee assignment | |
| GEOS 595E | Dendrochronology Colloq. (Scientific Writing) | | Tree Ring Faculty (TBD) | | | | | | | | | | | |
| GEOS 650 | Field Studies in Geomorphology | | | | McGuire, L. | | | | | McGuire, L. | | | | |
| TBD | UA-AGREED | | | | | | | Thompson, D.M. | | Thompson, D.M. | | | Thompson, D.M. | |
| **Seminars (596x unless otherwise noted)** | | | | | | | | | | | | | | |
| HNRS195I | Future Ocean: What will it look like and how will it affect our lives? | | Russell, J. | | | | Russell, J. | | Russell, J. | | Russell, J. | | | Russell, J. |
| | Economic Petrology | | | | | | | | | | | | | |
| | Petrology of Subdction Zones | | | | | | | | | | | | | |
| | Cosmochronology | | | | | | Ibanez-Mejia, M. | | | | Ibanez-Mejia, M. | | | |
| | Non-Traditional Stable Isotopes in Geochemistry | | | | | | | Ibanez-Mejia, M. | | | | | Ibanez-Mejia, M. | |
| | Tectonic Petrochronology | | | | Ibanez-Mejia, M. | | | | | Ibanez-Mejia, M. | | | | |
| | Magmatic processes and seismology | | | | | | Kiser, E. & Moitra, P. | | Kiser, E. & Moitra, P. | | | | | |
| | TANGO Seminar | | | | | | | | | | | | | |
| | Radar | | | | | | | | | | | | | |
| | Rock-Climate Interactions | | | | | | | | | | | | | |
| | Structural Geology for Exploration and Mining Geology | | | | | | Richardson, C. | | Richardson, C. | | | | | |
| | Geomorphology - Quaternary Geology | | | | | | | | | | | | | |
| | Paleolimnology Seminar | | | | | | | | | | | | | |
| | Structure/Tectonics | | | | | | | | | | | | | |
| | Interpretation of Seismic Reflection Data | | | | | | | | | | | | | |
| | Graduate Student Skills | | Harig, C. | | | | Harig, C. | | | | | | | |
| | Ocean's Role in Climate | | Russell, J. | | | | Russell, J. | | Russell, J. | | Russell, J. | | | Russell, J. |
| | Advanced Ore Deposit Geology | | | | | | | | | | | | | |
| | Advanced Ore Deposits II | | | | | | | | | | | | | |