

2018 SPRING SEMESTER DISTANCE EDUCATION CLASS OFFERINGS

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|--|----------|--------|-----|------|------------------|------------------|------|------|------------------------------------|
| Aerospace Engineering | | | | | | | | | |
| 5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5236) | 3.0- 3.0 | 71170 | LEC | 1DIS | TTh | 12:30 - 01:45 pm | ARR | | Dharani,L |
| | | | | | | | | | Distance Course Rates Apply |
| 5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Mech Eng 5282) | 3.0- 3.0 | 71029 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Chandrashekhara,K |
| | | | | | | | | | Distance Course Rates Apply |
| 5353 Aeroelasticity | 3.0- 3.0 | 73320 | LEC | 1DIS | Th | 04:00 - 06:30 pm | ARR | | Pitt,D |
| | | | | | | | | | Distance Course Rates Apply |
| 5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Mech Eng 5830) | 3.0- 3.0 | 72167 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Hosder,S |
| | | | | | | | | | Distance Course Rates Apply |
| 6099 Research | 0.0-15.0 | 71576 | IND | 6DIS | ARR | ARR | ARR | | Birman,V |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-15.0 | 71830 | IND | 6DIA | ARR | ARR | ARR | | Dharani,L |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-15.0 | 71930 | IND | 6DIB | ARR | ARR | ARR | | Eversman,W |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-15.0 | 72055 | IND | 6DIC | ARR | ARR | ARR | | Riggins,D |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-15.0 | 72415 | IND | 6DID | ARR | ARR | ARR | | Rovey,J |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-15.0 | 73669 | IND | 6DIE | ARR | ARR | ARR | | Hosder,S |
| | | | | | | | | | Distance Course Rates Apply |
| 6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Mech Eng 6123) | 3.0- 3.0 | 72006 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Isaac,K |
| | | | | | | | | | Distance Course Rates Apply |
| 6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Mech Eng 6212) | 3.0- 3.0 | 71657 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Chandrashekhara,K |
| | | | | | | | | | Distance Course Rates Apply |
| 6458 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Sys Eng 6215) | 3.0- 3.0 | 72784 | LEC | 1DIS | CANCELLED | | | | |
| 6481 Advanced Topics in Decision and Control | 3.0- 3.0 | 73509 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Balakrishnan,S |
| | | | | | | | | | Distance Course Rates Apply |
| 6527 Heat Transfer by Convection Prerequisite: Mech Eng 5525 or Aero Eng 5525. (Co-listed with Mech Eng 6527) | 3.0- 3.0 | 72029 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | Homan,K |
| | | | | | | | | | Distance Course Rates Apply |
| Architectural Engineering | | | | | | | | | |
| 5203 Applied Mechanics In Structural Engineering | 3.0- 3.0 | 73335 | LEC | 1DIS | TTh | 12:30 - 01:45 pm | ARR | | Schonberg,W |
| | | | | | | | | | Distance Course Rates Apply |
| 5210 Advanced Steel Structures Design | 3.0- 3.0 | 73500 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | EIGawady,M |
| | | | | | | | | | Distance Course Rates Apply |
| 5220 Advanced Concrete Structures Design | 3.0- 3.0 | 73325 | LEC | 1DIS | ARR | ARR | | | Sneed,L |
| | | | | | | | | | Distance Course Rates Apply |
| 5442 Construction Planning and Scheduling Strategies Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Civ Eng 5442) | 3.0- 3.0 | 71475 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Bodapati,S |
| | | | | | | | | | Distance Course Rates Apply |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|---|----------|--------|-----|------|-----|------------------|------|------|------------------------------------|
| 5448 Green Engineering: Analysis of Constructed Facilities Prerequisites: Civ Eng 4448 or Arch Eng 4448; and Junior Standing. (Co-listed with Civ Eng 5448) | 3.0- 3.0 | 71648 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | Scott-Showalter,P |
| | | | | | | | | | Distance Course Rates Apply |
| 5449 Engineering and Construction Contract Specifications Prerequisite: Arch Eng 4448 with a grade of "C" or better. (Co-listed with Civ Eng 5449) | 3.0- 3.0 | 72002 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Scott-Showalter,P |
| | | | | | | | | | Distance Course Rates Apply |
| 6801 Advanced Concrete Science and Technology | 3.0- 3.0 | 73501 | LEC | 1DIS | TTh | 04:00 - 06:30 pm | ARR | | Khayat,K |
| | | | | | | | | | Distance Course Rates Apply |

Business

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|---|----------|-------|-----|------|---|------------------|-----|--|------------------------------------|
| 5470 Human Resource Management Prerequisite: Bus 1110. | 3.0- 3.0 | 72314 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Tharp,J |
| | | | | | | | | | Distance Course Rates Apply |
| 5580 Strategic Management Prerequisites: MKT 3110 or Eng Mgt 3510; Finance 2150 or Eng Mgt 3200; Senior standing. | 3.0- 3.0 | 72896 | LEC | 1DIS | W | 07:00 - 09:30 pm | ARR | | Fang,H |

Business

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|---|----------|-------|-----|------|---|------------------|-----|--|------------------------------------|
| 5730 Machine Learning and Artificial Intelligence for Business | 3.0- 3.0 | 73585 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Flachsbar,B |
| | | | | | | | | | Distance Course Rates Apply |

Business

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|---|----------|-------|-----|------|-----|------------------|-----|--|---------------------------------------|
| 5980 Business Models for Entrepreneurship and Innovation Prerequisite: Senior or graduate standing. | 3.0- 3.0 | 72897 | LEC | 1DIS | MWF | 03:00 - 03:50 pm | ARR | | Fang,H |
| 6224 Managerial Accounting and Control Prerequisite: Graduate standing. | 3.0- 3.0 | 71478 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Eng,L |
| | | | | | | | | | See 'Notes' for Class Schedule |
| | | | | | | | | | Distance Course Rates Apply |
| 6425 Supply Chain and Project Management Prerequisite: Graduate standing. | 3.0- 3.0 | 71479 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Elrod,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6675 Advanced International Business Prerequisites: MKT 3110 or MKT 5105 or Eng Mgt 3510. | 3.0- 3.0 | 72311 | LEC | 1DIS | MWF | 01:00 - 01:50 pm | ARR | | Stanley,S |
| | | | | | | | | | Distance Course Rates Apply |
| 6723 Artificial Intelligence, Robotics, and Information Systems Management Prerequisite: Graduate standing. | 3.0- 3.0 | 71610 | LEC | 1DIS | Th | 07:00 - 09:30 pm | ARR | | Siau,K |
| | | | | | | | | | Distance Course Rates Apply |

Chemical Engineering

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|--|----------|-------|-----|------|-----|------------------|-----|--|------------------------------------|
| 5110 Intermediate Chemical Reactor Design | 3.0- 3.0 | 73597 | LEC | 1DIS | MTW | 08:00 - 08:50 am | ARR | | Al Dahhan,M |
| | | | | | | | | | Distance Course Rates Apply |
| 5130 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Eng Mgt 4312) | 3.0- 3.0 | 71653 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Schmidt,M |
| | | | | | | | | | Distance Course Rates Apply |
| 5190 Plantwide Process Control Prerequisites: Chem Eng 4110 or Elec Eng 3320 or Elec Eng 3340 or graduate standing. (Co-listed with Elec Eng 5350) | 3.0- 3.0 | 71971 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Erickson,K |
| | | | | | | | | | Distance Course Rates Apply |
| 5220 Intermediate Engineering Thermodynamics | 3.0- 3.0 | 73596 | LEC | 1DIS | MW | 09:00 - 09:50 am | ARR | | Luks,C |
| | | | | | | | | | Distance Course Rates Apply |

Civil Engineering

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|--|----------|-------|-----|------|-----|------------------|-----|--|------------------------------------|
| 3842 Fundamentals of Building Systems | 3.0- 3.0 | 72843 | LEC | 1DIS | TTh | 08:00 - 09:15 am | ARR | | Gillis,W |
| | | | | | | | | | Distance Course Rates Apply |
| 5001 Special Topics | 3.0- 3.0 | 73326 | LEC | 1DIS | MWF | 12:00 - 12:50 pm | ARR | | Oerther,D |
| | | | | | | | | | STEAM Diplomacy |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 73498 | LEC | 1DIA | TTh | 12:30 - 01:45 pm | ARR | | Intelligent Transportation Sys |
| | | | | | | | | | UM Shared Course-Secondary |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|---|----------|--------|-----|------|-----|------------------|------|------|------------------------------------|
| 5113 Composition And Properties Of Concrete | 3.0- 3.0 | 73497 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Liu,J |
| | | | | | | | | | Communication Emphasized |
| | | | | | | | | | Distance Course Rates Apply |
| 5203 Applied Mechanics In Structural Engineering | 3.0- 3.0 | 73334 | LEC | 1DIS | TTh | 12:30 - 01:45 pm | ARR | | Schonberg,W |
| | | | | | | | | | Distance Course Rates Apply |
| 5210 Advanced Steel Structures Design | 3.0- 3.0 | 73499 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | ElGawady,M |
| | | | | | | | | | Distance Course Rates Apply |
| 5220 Advanced Concrete Structures Design | 3.0- 3.0 | 73324 | LEC | 1DIS | ARR | ARR | | | Sneed,L |
| | | | | | | | | | Distance Course Rates Apply |
| 5250 Air Transportation | 3.0- 3.0 | | LEC | 1DIS | Th | 07:00 - 09:00 pm | ARR | | Trueblood,M |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 73546 | LAB | 3DIS | ARR | ARR | ARR | | Distance Course Rates Apply |
| | | | | | | | | | Distance Course Rates Apply |
| 5442 Construction Planning and Scheduling Strategies | 3.0- 3.0 | 71472 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Bodapati,S |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng or Arch Eng 4448. (Co-listed with Arch Eng 5442) | | | | | | | | | |
| 5448 Green Engineering: Analysis of Constructed Facilities | 3.0- 3.0 | 71647 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | Scott-Showalter,P |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisites: Civ Eng 4448 or Arch Eng 4448; and Junior Standing. (Co-listed with Arch Eng 5448) | | | | | | | | | |
| 5449 Engineering and Construction Contract Specifications | 3.0- 3.0 | 72004 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Scott-Showalter,P |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng 4448 with a grade of "C" or better. (Co-listed with Arch Eng 5449) | | | | | | | | | |
| 5640 Environmental Law And Regulations | 3.0- 3.0 | 71385 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Flechas,F |
| | | | | | | | | | Distance Course Rates Apply |
| (Co-listed with Env Eng 5640) | | | | | | | | | |
| 5650 Public Health Engineering | 3.0- 3.0 | 72544 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Oerther,D |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng 2601 with a grade of "C" or better. (Co-listed with Env Eng 5650) | | | | | | | | | |
| 5744 Geosynthetics in Engineering Research | 3.0- 3.0 | 73005 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | | McLain,K |
| 6099 | 0.0-15.0 | 71938 | IND | 6DIS | ARR | ARR | ARR | | Chen,G |
| | | | | | | | | | Distance Course Rates Apply |
| 6338 Advanced Hydrology | 3.0- 3.0 | 71620 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Wilson,L |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng 3333. | | | | | | | | | |
| 6612 Biological Operations In Environmental Engineering Systems | 3.0- 3.0 | 72128 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Fitch,M |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Env Eng 6612) | | | | | | | | | |
| 6715 Advanced Soil Mechanics | 3.0- 3.0 | 72309 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Deng,W |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng 5715. | | | | | | | | | |
| 6716 Soil Stabilization | 3.0- 3.0 | 72631 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Zhang,X |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Civ Eng 5715. | | | | | | | | | |
| 6801 Advanced Concrete Science and Technology | 3.0- 3.0 | 73502 | LEC | 1DIS | TTh | 04:00 - 06:30 pm | ARR | | Khayat,K |

Computer Engineering

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|--|----------|-------|-----|------|-----|------------------|-----|--|------------------------------------|
| 4000 Special Problems | 1.0- 6.0 | 71106 | IND | 6DIS | ARR | ARR | ARR | | |
| | | | | | | | | | Distance Course Rates Apply |
| 5099 Special Research And Thesis | 1.0-15.0 | 70973 | IND | 6DIS | ARR | ARR | ARR | | |
| | | | | | | | | | Distance Course Rates Apply |
| 5120 Digital Computer Design | 3.0- 3.0 | 73209 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Hanna,W |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisites: COMP ENG 3150 and COMP ENG 3151. | | | | | | | | | |
| 5170 Real-Time Systems | 3.0- 3.0 | 72462 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Guo,Z |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisites: COMP ENG 3150 or COMP SCI 3800. | | | | | | | | | |
| 5220 Digital System Modeling | 3.0- 3.0 | 72780 | LEC | 1DIS | MWF | 01:00 - 01:50 pm | ARR | | Dua,R |
| | | | | | | | | | Distance Course Rates Apply |
| Prerequisite: Comp Eng 2210 with a grade of "C" or better. | | | | | | | | | |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|--|----------|--------|-----|------|-----|------------------|------|------|--|
| 5410 Introduction to Computer Communication Networks Prerequisites: Comp Eng 3150 or computer hardware competency and Stat 3117 or Stat 3115 or Stat 5643 or equivalent. | 3.0- 3.0 | 72565 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Sedighsarvestani,S |
| | | | | | | | | | Distance Course Rates Apply |
| 5620 Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Elec Eng 5620) | 3.0- 3.0 | 71026 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | | Drewniak,J |
| | | | | | | | | | Distance Course Rates Apply |
| 5803 Mathematical Logic I Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Sci 5203, Philos 4354 and Math 5154) | 3.0- 3.0 | 72609 | LEC | 1DIS | ARR | ARR | ARR | | Insall,E |
| | | | | | | | | | Class meets February 1st through March 1st, 2017. See 'Notes' for Class Schedule Distance Course Rates Apply |
| 6099 Special Research and Thesis | 1.0-15.0 | 72683 | IND | 6DIS | ARR | ARR | ARR | | Wunsch,D |
| | | | | | | | | | Distance Course Rates Apply |
| 6302 Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining. (Co-listed with Comp Eng 6302 and Sys Eng 6216) | 3.0- 3.0 | 72825 | LEC | 1DIS | MWF | 03:00 - 03:50 pm | ARR | | Leopold,J |
| | | | | | | | | | Distance Course Rates Apply |
| 6330 Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Elec Eng 6340, Sys Eng 6214, Comp Sci 6405, Stat 6239) | 3.0- 3.0 | 73259 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Wunsch,D |
| | | | | | | | | | |
| 6410 Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6321) | 3.0- 3.0 | 72724 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | | Dagli,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6420 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Elec Eng 6430 and Sys Eng 6324) | 3.0- 3.0 | 73270 | LEC | 1DIS | MWF | 08:00 - 08:50 am | ARR | | Zawodniok,M |

Computer Science

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|---|----------|-------|-----|------|-----|------------------|-----|--|------------------------------------|
| 4700 Intellectual Property For Computer Scientists Prerequisite: Senior or graduate standing. | 3.0- 3.0 | 71410 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Canis,R |
| | | | | | | | | | Distance Course Rates Apply |
| 5099 Research | 0.0-16.0 | 71593 | IND | 6DIS | ARR | ARR | ARR | | Das,S |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72057 | IND | 6DIA | ARR | ARR | ARR | | Ercal,F |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72058 | IND | 6DIB | ARR | ARR | ARR | | Hurson,A |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72059 | IND | 6DIC | ARR | ARR | ARR | | Jiang,W |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72060 | IND | 6DID | ARR | ARR | ARR | | Leopold,J |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72061 | IND | 6DIE | ARR | ARR | ARR | | Lin,D |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72062 | IND | 6DIF | ARR | ARR | ARR | | Madria,S |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72063 | IND | 6DIG | ARR | ARR | ARR | | McMillin,B |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72064 | IND | 6DIH | ARR | ARR | ARR | | Sabharwal,C |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72065 | IND | 6DIJ | ARR | ARR | ARR | | Sedighsarvestani,S |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-16.0 | 72066 | IND | 6DIK | ARR | ARR | ARR | | Tauritz,D |
| | | | | | | | | | Distance Course Rates Apply |

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|----------------------------|--|----------|------------------------------------|--|------|------|------------------|------|-------------|--|
| | 0.0-16.0 | 72067 | IND | 6DIL | ARR | ARR | ARR | | Wunsch,D | |
| | | | Distance Course Rates Apply | | | | | | | |
| | 0.0-16.0 | 72068 | IND | 6DIM | ARR | ARR | ARR | | Yin,Z | |
| | | | Distance Course Rates Apply | | | | | | | |
| | 0.0-16.0 | 72069 | IND | 6DIN | ARR | ARR | ARR | | | |
| | | | Distance Course Rates Apply | | | | | | | |
| 5200 | Analysis Of Algorithms Prerequisite: A "C" or better grade in Comp Sci 2500. | 3.0- 3.0 | 72819 | LEC | 1DIS | TTh | 08:00 - 09:15 am | ARR | Markowsky,G | |
| | | | | Distance Course Rates Apply | | | | | | |
| 5203 | Mathematical Logic I Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Math 5154, Philos 4354 and Comp Eng 5803.) | 3.0- 3.0 | 72610 | LEC | 1DIS | ARR | ARR | ARR | Insall,E | |
| | | | | Class meets February 1st through March 1st, 2017. See 'Notes' for Class Schedule Distance Course Rates Apply | | | | | | |
| 5204 | Regression Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Stat 5346) | 3.0- 3.0 | 72071 | LEC | 1DIS | MWF | 01:00 - 01:50 pm | ARR | Olbricht,G | |
| | | | | Distance Course Rates Apply | | | | | | |

Computer Science

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|------|--------------------------|----------|-------|------------------------------------|------|-----|------------------|-----|-------|--|
| 5205 | Real-Time Systems | 3.0- 3.0 | 73589 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | Guo,Z | |
| | | | | Distance Course Rates Apply | | | | | | |

Computer Science

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|------|--|----------|-------|------------------------------------|------|-----|------------------|-----|-------------|--|
| 5400 | Introduction To Artificial Intelligence Prerequisite: A "C" or better grade in Comp Sci 2500. | 3.0- 3.0 | 72474 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | Tauritz,D | |
| | | | | Distance Course Rates Apply | | | | | | |
| 5406 | Interactive Computer Graphics Prerequisite: A "C" or better grade in both Comp Sci 3200 and Comp Sci 2500. | 3.0- 3.0 | 72827 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | Sabharwal,C | |
| | | | | Distance Course Rates Apply | | | | | | |
| 5601 | Security Operations & Program Management Prerequisite: A "C" or better grade in all of: operating systems, computer networking, and a writing emphasized course. | 3.0- 3.0 | 71375 | LEC | 1DIS | MWF | 02:00 - 02:50 pm | ARR | Lutzen,K | |
| | | | | Distance Course Rates Apply | | | | | | |
| 6010 | Seminar | 1.0- 1.0 | 71886 | RSD | 2DIS | M | 10:00 - 10:50 am | ARR | Markowsky,G | |
| | | | | Distance Course Rates Apply | | | | | | |
| 6102 | Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with SYS ENG 6542) | 3.0- 3.0 | 72934 | LEC | 1DIS | F | 04:00 - 06:30 pm | ARR | Do,Q | |
| | | | | Distance Course Rates Apply | | | | | | |
| 6304 | Cloud Computing and Big Data Management | 3.0- 3.0 | 73531 | LEC | 1DIS | Th | 04:00 - 06:30 pm | ARR | Madria,S | |
| | | | | Distance Course Rates Apply | | | | | | |
| 6402 | Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining. (Co-listed with Comp Eng 6302 and Sys Eng 6216) | 3.0- 3.0 | 72824 | LEC | 1DIS | MWF | 03:00 - 03:50 pm | ARR | Leopold,J | |
| | | | | Distance Course Rates Apply | | | | | | |
| 6405 | Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Elec Eng 6340, Sys Eng 6214 and Stat 6239) | 3.0- 3.0 | 73260 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | Wunsch,D | |
| | | | | Distance Course Rates Apply | | | | | | |
| 6604 | Mobile And Sensor Data Management Prerequisite: Comp Sci 4601. | 3.0- 3.0 | 72473 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | Madria,S | |
| | | | | Distance Course Rates Apply | | | | | | |

Economics

| | | | | | | | | | | |
|------|---|----------|-------|------------------------------------|------|---|------------------|-----|---------|--|
| 5532 | Advanced Mining Economics (Co-listed with MIN ENG 5532) | 3.0- 3.0 | 72888 | LEC | 1DIS | W | 07:00 - 09:30 pm | ARR | Hyder,Z | |
| | | | | Distance Course Rates Apply | | | | | | |

Electrical Engineering

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|------------------|------------------|-----|--|------------------------------------|
| 2200 | Introduction to Electronic Devices Prerequisites: Elec Eng 2100, Elec Eng 2101, and Physics 2135 each with grade of "C" or better; passing the Elec Eng Advancement Exam I. Students should enroll in Elec Eng 2200 and Elec Eng 2201 simultaneously. | 3.0- 3.0 | 73030 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | Dua,R |
| | | | | | | | | | | Distance Course Rates Apply |
| 3100 | Electronics I Prerequisites: Elec Eng 153, Elec Eng 121, Elec Eng 122, and Comp Eng 111 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II and III. Elec Eng 255 is a corequisite. | 3.0- 3.0 | 71969 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | Odun-Ayo,T |
| | | | | | | | | | | Distance Course Rates Apply |
| 3320 | Control Systems Prerequisites: ELEC ENG 2120 and MATH 3304 each with a grade of "C" or better; passing the ELEC ENG Advancement Exam II; accompanied by ELEC ENG 3321. | 3.0- 3.0 | 72806 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Acar,L |
| | | | | | | | | | | Distance Course Rates Apply |
| 3340 | Basic Programmable Logic Controllers Prerequisite: Preceded or accompanied by either Elec Eng 2120 or Elec Eng 2800. | 3.0- 3.0 | | LEC | 1DIS | TTh | 08:00 - 09:15 am | ARR | | Erickson,K |
| | | | | | | | | | | Distance Course Rates Apply |
| | | 3.0- 3.0 | 71871 | LAB | 3DIS | ARR | ARR | ARR | | Andrade,K |
| | | | | | | | | | | Distance Course Rates Apply |
| 3410 | Digital Signal Processing | 3.0- 3.0 | 73541 | LEC | 1DIS | CANCELLED | | | | |
| | | 3.0- 3.0 | 73600 | LEC | 1DIA | MWF | 08:00 - 08:50 am | ARR | | Dua,R |
| | | | | | | | | | | Distance Course Rates Apply |
| 3540 | Power System Design And Analysis | 3.0- 3.0 | 72820 | LEC | IDIS | MWF | 01:00 - 01:50 pm | ARR | | Odun-Ayo,T |
| 3600 | Electromagnetics Prerequisites: Elec Eng 2120, Elec Eng 2101, Physics 2135, and Math 3304 each with a grade of "C" or better. Passing grade on Elec Eng Advancement Exam II. | 4.0- 4.0 | 71770 | LEC | 1DIS | CANCELLED | | | | |
| 5150 | Photovoltaic Systems Engineering | 3.0- 3.0 | 73438 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Kimball,J |
| | | | | | | | | | | Distance Course Rates Apply |
| 5300 | Digital Control Prerequisite: Elec Eng 3320. | 3.0- 3.0 | 71418 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Acar,L |
| | | | | | | | | | | Distance Course Rates Apply |
| 5345 | PLC Motion Control | 3.0- 3.0 | | LEC | 1DIS | MWF | 08:00 - 08:50 am | ARR | | Erickson,K |
| | | | | | | | | | | Distance Course Rates Apply |
| | | 3.0- 3.0 | 73619 | LAB | 3DIS | ARR | ARR | ARR | | Riney,Z |
| | | | | | | | | | | Distance Course Rates Apply |
| 5350 | Plantwide Process Control Prerequisites: Chem Eng 4110, Elec Eng 3320, Elec Eng 3340 or graduate standing. (Co-listed with Chem Eng 5190) | 3.0- 3.0 | 71970 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Erickson,K |
| | | | | | | | | | | Distance Course Rates Apply |
| 5360 | System Simulation And Identification Prerequisite: Elec Eng 3320. | 3.0- 3.0 | 72807 | LEC | 1DIS | Th | 04:00 - 06:30 pm | ARR | | Dierks,T |
| | | | | | | | | | | Distance Course Rates Apply |
| 5370 | Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Sys Eng 5212) | 3.0- 3.0 | 72124 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Dagli,C |
| | | | | | | | | | | Distance Course Rates Apply |
| 5420 | Communications Systems II Prerequisite: Elec Eng 3420. | 3.0- 3.0 | 72642 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | | Potter,C |
| | | | | | | | | | | Distance Course Rates Apply |
| 5500 | Electric Drive Systems | 3.0- 3.0 | 73439 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | | Shamsi,P |
| | | | | | | | | | | Distance Course Rates Apply |
| 5570 | Extra High Voltage Engineering Prerequisite: Senior standing. | 3.0- 3.0 | 73286 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Shamsi,P |
| 5620 | Signal Integrity in High-Speed Digital & Mixed Signal Design Prerequisites: Elec Eng 3600 or Comp Eng 3150, and Senior standing. (Co-listed with Comp Eng 5620) | 3.0- 3.0 | 70974 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | | Drewniak,J |
| | | | | | | | | | | Distance Course Rates Apply |
| 6001 | Special Topics | 3.0- 3.0 | 73440 | LEC | 1DIS | CANCELLED | | | | |
| 6099 | Special Research And Thesis | 0.0-15.0 | 72633 | IND | 6DIS | ARR | ARR | ARR | | Kimball,J |
| | | | | | | | | | | Distance Course Rates Apply |
| 6310 | Optimal Control And Estimation | 3.0- 3.0 | 73287 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Sarangapani,J |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|---|----------|--------|-----|------|-----|------------------|------|------|-------------|
| 6340 Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Sys Eng 6214, Comp Sci 6405 and Stat 6239) | 3.0- 3.0 | 73262 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Wunsch,D |
| 6430 Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Sys Eng 6324) | 3.0- 3.0 | 73271 | LEC | 1DIS | MWF | 08:00 - 08:50 am | ARR | | Zawodniok,M |
| 6570 Surge Phenomena In Power Systems Prerequisite: Elec Eng 5540. | 3.0- 3.0 | 73288 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Nauert,P |
| 6600 Advanced Electromagnetics I Prerequisite: Elec Eng 3600 or equivalent undergraduate electromagnetics course. | 3.0- 3.0 | 72468 | LEC | 1DIS | MWF | 03:00 - 03:50 pm | ARR | | Drewniak,J |

Engineering Management

| | | | | | | | | | |
|--|----------|-------|-----|------|-----------|------------------|-----|--|-------------|
| 4312 Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. (Co-listed with Chem Eng 5130) | 3.0- 3.0 | 72635 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Schmidt,M |
| 5111 Management for Engineers and Scientists Prerequisite: Graduate standing. | 3.0- 3.0 | 71527 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | | Spurlock,D |
| 5210 Economic Decision Analysis Prerequisite: Graduate students without previous course in engineering economy because of partial overlap. | 3.0- 3.0 | 71089 | LEC | 1DIS | W | 07:00 - 09:30 pm | ARR | | Materla,T |
| 5212 Intelligent Investing | 3.0- 3.0 | 73511 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Enke,D |
| 5312 Advanced Risk Assessment and Reduction Prerequisite: Senior or Graduate Standing. | 3.0- 3.0 | 72125 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Schmidt,M |
| 5320 Project Management Prerequisite: Graduate Standing | 3.0- 3.0 | 71034 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Berry,R |
| 5411 Engineering Design Optimization Prerequisite: Math 3304 or 3329. | 3.0- 3.0 | 71802 | LEC | 1DIS | CANCELLED | | | | |
| 5412 Operations Management Science Prerequisites: Graduate standing. | 3.0- 3.0 | 71416 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Konur,D |
| 5512 Legal Environment Prerequisites: Senior or graduate standing. | 3.0- 3.0 | 71551 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Canis,R |
| 5515 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with MECH ENG 5757) | 3.0- 3.0 | 72454 | LEC | 1DIS | M | 04:00 - 05:15 pm | ARR | | Grantham,K |
| 5613 Value Analysis Prerequisite: Senior or graduate standing. | 3.0- 3.0 | 71605 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Lin,H |
| 6099 Research | 0.0-15.0 | 72194 | IND | 6DIS | ARR | ARR | ARR | | Corns,S |
| | 0.0-15.0 | 72195 | IND | 6DIA | ARR | ARR | ARR | | Cudney,E |
| | 0.0-15.0 | 72196 | IND | 6DIB | ARR | ARR | ARR | | Dagli,C |
| | 0.0-15.0 | 72197 | IND | 6DIC | ARR | ARR | ARR | | Enke,D |
| | 0.0-15.0 | 72198 | IND | 6DID | ARR | ARR | ARR | | Gosavi,A |
| | 0.0-15.0 | 72199 | IND | 6DIE | ARR | ARR | ARR | | Grantham,K |
| | 0.0-15.0 | 72200 | IND | 6DIF | ARR | ARR | ARR | | Guardiola,I |
| | 0.0-15.0 | 72201 | IND | 6DIG | ARR | ARR | ARR | | Konur,D |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|----------------------------|---|----------|------------------------------------|------|------|------|------------------|------|------------|
| | 0.0-15.0 | 72202 | IND | 6DIH | ARR | ARR | ARR | | Long,S |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 72204 | IND | 6DIL | ARR | ARR | ARR | | Qin,R |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 72205 | IND | 6DIM | ARR | ARR | ARR | | Raper,S |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 73680 | IND | 6DIN | ARR | ARR | ARR | | Murray,S |
| | | | Distance Course Rates Apply | | | | | | |
| 6110 | Case Studies In General Management Prerequisite: Preceded or accompanied by an Eng Mgt 6000 level course. | 3.0- 3.0 | 71155 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | Bade,J |
| | | | Distance Course Rates Apply | | | | | | |
| 6211 | Advanced Financial Management Prerequisite: Eng Mgt 1210 or 5210. | 3.0- 3.0 | 71606 | LEC | 1DIS | Th | 04:00 - 06:30 pm | ARR | Enke,D |
| | | | Distance Course Rates Apply | | | | | | |
| 6323 | Global Project Management Prerequisite: Eng Mgt 5320 or equivalent. | 3.0- 3.0 | 71293 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | Schuman,J |
| | | | Distance Course Rates Apply | | | | | | |
| 6510 | Technological Innovation Management Prerequisite: Eng Mgt 5111. | 3.0- 3.0 | 71028 | LEC | 1DIS | Th | 04:00 - 06:30 pm | ARR | Bade,J |
| | | | Distance Course Rates Apply | | | | | | |
| 6710 | Design for Six Sigma | 3.0- 3.0 | 73346 | LEC | 1DIS | TTh | 12:30 - 01:45 pm | ARR | Cudney,E |
| | | | Distance Course Rates Apply | | | | | | |

Enterprise Resource Planning

| | | | | | | | | | |
|------|---|----------|------------------------------------|-----|------|-----|------------------|-----|-------|
| 5210 | Performance Dashboard, Scorecard and Data Visualization Prerequisite: ERP 2110 or preceded or accompanied by ERP 5110. | 3.0- 3.0 | 71991 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | Lea,B |
| | | | Distance Course Rates Apply | | | | | | |
| 6120 | Enterprise Resource Planning: Systems Config and Integration Prerequisite: ERP 5110. | 3.0- 3.0 | 71208 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | Lea,B |
| | | | Distance Course Rates Apply | | | | | | |
| 6444 | Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with IS&T 6444) | 3.0- 3.0 | 71582 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | Yu,W |
| | | | Distance Course Rates Apply | | | | | | |

Environmental Engineering

| | | | | | | | | | |
|------|---|----------|------------------------------------|-----|------|-----|------------------|-----|-----------|
| 5001 | Special Topics | 3.0- 3.0 | 73327 | LEC | 1DIS | MWF | 12:00 - 12:50 pm | ARR | Oerther,D |
| | | | STEAM Diplomacy | | | | | | |
| 5635 | Phytoremediation and Natural Treatment Systems: Science and Design Prerequisite: Env Eng 3615 or Civ Eng 3615 or graduate standing. | 3.0- 3.0 | 72714 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | Burken,J |
| | | | Distance Course Rates Apply | | | | | | |
| 5640 | Environmental Law And Regulations (Co-listed with Civ Eng 5640) | 3.0- 3.0 | 71391 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | Flechas,F |
| | | | Distance Course Rates Apply | | | | | | |
| 5650 | Public Health Engineering Prerequisite: Civ Eng 2601 with grade of "C" or better. (Co-listed with Civ Eng 5650) | 3.0- 3.0 | 72545 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | Oerther,D |
| | | | Distance Course Rates Apply | | | | | | |
| 6612 | Biological Operations In Environmental Engineering Systems Prerequisite: Civ Eng 3330 or equivalent. (Co-listed with Civ Eng 6612) | 3.0- 3.0 | 72129 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | Fitch,M |
| | | | Distance Course Rates Apply | | | | | | |

Explosives Engineering

| | | | | | | | | | |
|------|--|----------|------------------------------------|-----|------|-----|------------------|-----|-----------|
| 5112 | Explosives Handling and Safety Prerequisite: Junior Standing or above. | 3.0- 3.0 | 72546 | LEC | 1DIS | Th | 04:00 - 06:30 pm | ARR | Johnson,C |
| | | | Distance Course Rates Apply | | | | | | |
| 5514 | Display Fireworks Manufacturing | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | Hall,S |
| | | | Distance Course Rates Apply | | | | | | |
| | | 3.0- 3.0 | | LEC | 1DIA | ARR | ARR | ARR | Hall,S |
| | | | Distance Course Rates Apply | | | | | | |
| | | 3.0- 3.0 | 72337 | LAB | 3DIS | ARR | ARR | ARR | Hall,S |
| | | | Distance Course Rates Apply | | | | | | |
| | | 3.0- 3.0 | 72884 | LAB | 3DIA | ARR | ARR | ARR | Hall,S |
| | | | Distance Course Rates Apply | | | | | | |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|---|----------|--------|--|------|-----|------|------|------|------------|
| 5612 Principles of Explosives Engineering Prerequisites: Min Eng 2126; successful background check. (Co-listed with Min Eng 5612) | 3.0- 3.0 | | LEC | 1DIA | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72624 | LAB | 3DIA | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| 5622 Blasting Design And Technology Prerequisites: Min Eng 5612. Student must be at least 21 years of age. Successful background check. (Co-listed with Min Eng 5622) | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Worsey,P |
| | | | "BACKGROUND CHECK REQUIRED IN ADVANCE. SEE SECRETARY IN MCNUTT 227." | | | | | | |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 71631 | LAB | 3DIS | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| 5713 Demolition of Buildings and Structures Prerequisites: Preceded or accompanied by Civ Eng 2200 or Mech Eng 2340; US citizen or permanent resident; Successful background check. | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | | LEC | 1DIA | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 71786 | LAB | 3DIS | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72622 | LAB | 3DIA | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| 5721 Specialty Uses of Energetic Materials | 3.0- 3.0 | 73295 | LEC | 1DIS | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| 5922 Advanced Tunneling & Underground Construction Techniques Prerequisite: Consent of instructor. (Co-listed with Min Eng 5922) | 3.0- 3.0 | 73296 | LEC | 1DIS | ARR | ARR | | | Perry,K |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | | LAB | 3DIS | ARR | ARR | | | Perry,K |
| | | | Distance Course Rates Apply | | | | | | |
| 6001 Special Topics | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Petr,V |
| | | | Exp Tech Ultra High Vel Impact | | | | | | |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 73469 | LAB | 3DIS | ARR | ARR | ARR | | Petr,V |
| | | | Exp Tech Ultra High Vel Impact | | | | | | |
| | | | Distance Course Rates Apply | | | | | | |
| 6080 Industry Project Prerequisite: 12 hours Exp Eng coursework. | 3.0- 3.0 | 71789 | LAB | 3DIS | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72616 | LAB | 3DIA | ARR | ARR | ARR | | Johnson,C |
| | | | Distance Course Rates Apply | | | | | | |
| 6099 Research Prerequisites: Consent of instructor required. | 0.0-15.0 | 72885 | IND | 6DIS | ARR | ARR | ARR | | Worsey,P |
| | | | Distance Course Rates Apply | | | | | | |
| 6112 Explosives Regulations Prerequisite: Graduate standing. | 3.0- 3.0 | 72306 | LEC | 1DIS | ARR | ARR | ARR | | Worsey,G |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72338 | LEC | 1DIA | ARR | ARR | ARR | | Worsey,G |
| | | | Distance Course Rates Apply | | | | | | |
| 6292 Research Methods Prerequisites: PhD students only. (Co-listed with Min Eng 6992) | 3.0- 3.0 | 73297 | LEC | 1DIS | ARR | ARR | | | Lusk,B |
| | | | Distance Course Rates Apply | | | | | | |

Finance

| | | | | | | | | | |
|---|----------|-------|-----|------|-----------|--|--|--|--|
| 5260 Investments I Prerequisites: Finance 2150. | 3.0- 3.0 | 71909 | LEC | 1DIS | CANCELLED | | | | |
|---|----------|-------|-----|------|-----------|--|--|--|--|

Geological Engineering

| | | | | | | | | | |
|--|----------|-------|------------------------------------|------|-----|------------------|-----|--|-----------|
| 2605 Statics and Mechanics of Geologic Materials Prerequisite: Permission of instructor. | 3.0- 3.0 | 72650 | LEC | 1DIS | ARR | ARR | ARR | | Gertsch,L |
| | | | Distance Course Rates Apply | | | | | | |
| 4115 Statistical Methods in Geology and Engineering | 3.0- 3.0 | 71650 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | |
| | | | Distance Course Rates Apply | | | | | | |
| 5099 Research | 0.0-15.0 | 71180 | IND | 6DIS | ARR | ARR | ARR | | Rogers,J |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 71943 | IND | 6DIA | ARR | ARR | ARR | | Maerz,N |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 73561 | IND | 6DIB | ARR | ARR | ARR | | Grote,K |
| | | | Distance Course Rates Apply | | | | | | |
| 5144 Remote Sensing Technology | 3.0- 3.0 | | LEC | 1DIS | M | 06:00 - 07:50 pm | ARR | | Witt,E |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 73674 | LAB | 3DIS | Th | 03:30 - 06:15 pm | ARR | | Witt,E |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|---|----------|--------|-----|------|-----|------------------|------|------|------------------------------------|
| 5381 Intermediate Subsurface Hydrology And Contaminant Transport Mechs Prerequisites: Civ Eng 3330 & Geo Eng 5331. | 3.0- 3.0 | 71238 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Grote,K |
| | | | | | | | | | Distance Course Rates Apply |
| 5443 Subsurface Exploration Prerequisite: Geo Eng 1150. | 3.0- 3.0 | | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Maerz,N |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 71237 | LAB | 3DIS | T | 12:30 - 03:15 pm | ARR | | Maerz,N |
| | | | | | | | | | Distance Course Rates Apply |
| 5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geophys 5782) | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Torgashov,E |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 71891 | LAB | 3DIS | ARR | ARR | ARR | | Torgashov,E |
| | | | | | | | | | Distance Course Rates Apply |
| 6000 Special Problems | 0.0- 6.0 | 71373 | IND | 6DIS | ARR | ARR | ARR | | Maerz,N |
| | | | | | | | | | Distance Course Rates Apply |
| 6001 Special Topics | 3.0- 3.0 | 73559 | LEC | 1DIS | W | 07:00 - 09:30 pm | ARR | | Rogers,J |
| | | | | | | | | | Adv Eng Geo & Geotechnics |
| | | | | | | | | | Distance Course Rates Apply |
| 6099 Research | 0.0-15.0 | 73552 | IND | 1DIS | ARR | ARR | ARR | | Maerz,N |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0-15.0 | 73562 | IND | 1DIA | ARR | ARR | ARR | | Grote,K |
| | | | | | | | | | Distance Course Rates Apply |
| 6400 Practice Oriented Project Prerequisites: Limited to students enrolled in the Masters of Engineering (M.E.) in Geotechnics Program. | 3.0- 3.0 | 72632 | IND | 6DIS | ARR | ARR | ARR | | Maerz,N |
| | | | | | | | | | Distance Course Rates Apply |
| 6782 Surface Waves (MASW) and Ground Penetrating Radar (GPR) Prerequisites: Geo Eng 1150 or Civ Eng 3715 or equivalent, and graduate standing. | 3.0- 3.0 | | LEC | 1DIA | ARR | ARR | ARR | | Anderson,N |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 72038 | LAB | 3DIA | ARR | ARR | ARR | | Anderson,N |
| | | | | | | | | | Distance Course Rates Apply |
| 6784 Advanced Engineering And Environmental Geophysics Prerequisite: Admittance into USAES-S&T Co-operative Degree Program. (Co-listed with Geophys 5251) | 3.0- 3.0 | 71934 | LEC | 1DIS | ARR | ARR | ARR | | Anderson,N |
| | | | | | | | | | Distance Course Rates Apply |

Geology

| | | | | | | | | | |
|---------------------------------------|----------|-------|-----|------|----|------------------|-----|--|------------------------------------|
| 4310 Remote Sensing Technology | 3.0- 3.0 | | LEC | 1DIS | M | 06:00 - 07:50 pm | ARR | | Witt,E |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 73676 | LAB | 3DIS | Th | 03:30 - 06:15 pm | ARR | | Witt,E |
| | | | | | | | | | Distance Course Rates Apply |

Geophysics

| | | | | | | | | | |
|--|----------|-------|-----|------|-----|-----|-----|--|------------------------------------|
| 5782 Environmental and Engineering Geophysics Prerequisite: Math 2222. (Co-listed with Geo Eng 5782) | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Torgashov,E |
| | | | | | | | | | Distance Course Rates Apply |
| | 3.0- 3.0 | 71893 | LAB | 3DIS | ARR | ARR | ARR | | Torgashov,E |
| | | | | | | | | | Distance Course Rates Apply |

Info Science & Technology

| | | | | | | | | | |
|--|----------|-------|-----|------|------------------|------------------|-----|--|------------------------------------|
| 4261 Information Systems Project Management Prerequisites: IST 1552 or Comp Sci 1510; Senior Standing. | 3.0- 3.0 | 72033 | LEC | 1DIS | CANCELLED | | | | |
| 4335 Fundamentals of Mobile Technology for Business | 3.0- 3.0 | 73671 | LEC | 1DIS | MWF | 01:00 - 01:50 pm | ARR | | Bates,C |
| | | | | | | | | | Distance Course Rates Apply |
| 4444 Introduction to Data Warehouses | 3.0- 3.0 | 73587 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Yu,W |
| | | | | | | | | | Distance Course Rates Apply |
| 4641 Digital Commerce and the Internet of Things | 3.0- 3.0 | 73453 | LEC | 1DIS | MWF | 02:00 - 02:50 pm | ARR | | Bates,C |
| | | | | | | | | | Distance Course Rates Apply |
| 4654 Web and Digital Media Development | 3.0- 3.0 | 72307 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Hall,R |
| | | | | | | | | | Distance Course Rates Apply |
| 5000 Special Problems | 0.0- 6.0 | 71500 | IND | 6DIS | ARR | ARR | ARR | | Lea,B |
| | | | | | | | | | Distance Course Rates Apply |
| | 0.0- 6.0 | 71503 | IND | 6DIA | ARR | ARR | ARR | | Yu,W |
| | | | | | | | | | Distance Course Rates Apply |
| 5099 Research | 0.0-15.0 | 71937 | IND | 6DIS | ARR | ARR | ARR | | Lea,B |
| | | | | | | | | | Distance Course Rates Apply |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|---|----------|--------|-----|------|------------------|------------------|------|------|------------------------------------|
| 5251 Technological Innovation Management and Leadership Prerequisite: Senior or Graduate Standing. | 3.0- 3.0 | 71661 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Nah,F |
| | | | | | | | | | Distance Course Rates Apply |
| 5420 Business Analytics and Data Science Prerequisites: Calculus, Statistics, and Programming knowledge. | 3.0- 3.0 | 72276 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Hilgers,M |
| | | | | | | | | | Distance Course Rates Apply |
| 5520 Data Science and Machine Learning with Python Prerequisites: One of Stat 3111, Stat 3113, Stat 3115, Stat 3117 and either IS&T 1552 or Comp Sci 1510; for Graduate Students: Graduate Standing and Knowledge of Calculus, Statistics, and Programming. | 3.0- 3.0 | 73198 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | | Chen,L |
| | | | | | | | | | Distance Course Rates Apply |
| 5885 Human-Computer Interaction Prerequisite: Psych 1101. | 3.0- 3.0 | 72154 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Nah,F |
| | | | | | | | | | Distance Course Rates Apply |
| 5887 Human-Computer Interaction Evaluation Prerequisite: Preceded or accompanied by IS&T 5885. | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Hall,R |
| | 3.0- 3.0 | 72900 | LAB | 3DIS | ARR | ARR | ARR | | Hall,R |
| 6261 Advanced Information Systems Project Management Prerequisites: IS&T MS Entrance requirements, with strong programming knowledge. | 3.0- 3.0 | 71662 | LEC | 1DIS | CANCELLED | | | | |
| 6335 Mobile Technology for Business Prerequisites: IS&T 3333 or equivalent. | 3.0- 3.0 | 73197 | LEC | 1DIS | MWF | 01:00 - 01:50 pm | ARR | | Bates,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6336 Foundations of Internet Computing Prerequisite: IS&T MS entrance requirements, including solid programming knowledge. | 3.0- 3.0 | 72427 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Twyman,N |
| | | | | | | | | | Distance Course Rates Apply |
| 6444 Essentials of Data Warehouses Prerequisite: IS&T 3423 or equivalent relational database experience. (Co-listed with ERP 6444) | 3.0- 3.0 | 71407 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Yu,W |
| | | | | | | | | | Distance Course Rates Apply |
| 6445 Database Marketing Prerequisite: Statistics understanding, programming understanding, familiarity with spreadsheets. | 3.0- 3.0 | 71704 | LEC | 1DIB | W | 07:00 - 09:30 pm | ARR | | Merz,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6641 Advanced Digital Commerce and the Internet of Things | 3.0- 3.0 | 73454 | LEC | 1DIS | MWF | 02:00 - 02:50 pm | ARR | | Bates,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6654 Advanced Web and Digital Media Development | 3.0- 3.0 | 72278 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Hall,R |
| | | | | | | | | | Distance Course Rates Apply |

Materials Science & Eng

| | | | | | | | | | |
|---------------------------------------|----------|-------|-----|------|---|------------------|-----|--|------------------------------------|
| 5001 Special Topics | 0.0- 6.0 | 73612 | LEC | 1DIS | T | 08:00 - 10:45 am | ARR | | Dogan,F |
| | | | | | | | | | Molecular Eng & Soft Nanomater |
| | | | | | | | | | Distance Course Rates Apply |
| 5230 Energy Materials | 3.0- 3.0 | 73379 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Dogan,F |
| | | | | | | | | | Distance Course Rates Apply |
| 6001 Special Topics | 0.0- 6.0 | 73613 | LEC | 1DIS | T | 08:00 - 10:45 am | ARR | | Dogan,F |
| | | | | | | | | | Adv. Molecular Eng & Soft Nano |
| | | | | | | | | | Distance Course Rates Apply |
| 6220 Advanced Energy Materials | 3.0- 3.0 | 73380 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Dogan,F |
| | | | | | | | | | Distance Course Rates Apply |

Mathematics

| | | | | | | | | | |
|--|----------|-------|-----|------|-----|-----|-----|--|---|
| 5154 Mathematical Logic I Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Eng 5803, Comp Sci 5203 and Philos 4354) | 3.0- 3.0 | 72608 | LEC | 1DIS | ARR | ARR | ARR | | Insall,E |
| | | | | | | | | | Class meets January 31 through February 28, 2018. |
| | | | | | | | | | See 'Notes' for Class Schedule |
| | | | | | | | | | Distance Course Rates Apply |

Mechanical Engineering

| | | | | | | | | | |
|--|----------|-------|-----|------|-----|-----|-----|--|------------------------------------|
| 4000 Special Problems Prerequisite: Consent of instructor. | 0.0- 6.0 | 71707 | IND | 6DIS | ARR | ARR | ARR | | Chandrashekhara,K |
| | | | | | | | | | Distance Course Rates Apply |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|--|----------|--------|------------------------------------|------|-----------|------------------|------|------|-------------------|
| 5000 Special Problems | 0.0- 6.0 | 71502 | IND | 6DIS | ARR | ARR | ARR | | Appelman,H |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0- 6.0 | 71797 | IND | 6DIA | ARR | ARR | ARR | | Landers,R |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0- 6.0 | 71826 | IND | 6DIB | ARR | ARR | ARR | | Liou,F |
| | | | Distance Course Rates Apply | | | | | | |
| 5001 Special Topics Prerequisites: Physics 2135, Math 2222 | 3.0- 3.0 | 73353 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | | Carroll,D |
| | | | Energy Efficiency of Vehicles | | | | | | |
| | | | Distance Course Rates Apply | | | | | | |
| 5236 Fracture Mechanics Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5236) | 3.0- 3.0 | 71171 | LEC | 1DIS | TTh | 12:30 - 01:45 pm | ARR | | Dharani,L |
| | | | Distance Course Rates Apply | | | | | | |
| 5282 Introduction to Composite Materials & Structures Prerequisite: Civ Eng 2210. (Co-listed with Aero Eng 5282) | 3.0- 3.0 | 71030 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Chandrashekhara,K |
| | | | Distance Course Rates Apply | | | | | | |
| 5575 Mechanical Systems For Environmental Control Prerequisites: Mech Eng 3521 and 3525; or Mech Eng 2527 and Civ Eng 3330. | 3.0- 3.0 | 72013 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Williams JR,G |
| | | | Distance Course Rates Apply | | | | | | |
| 5656 Design For Manufacture Prerequisites: Mech Eng 3708, Mech Eng 3653. | 3.0- 3.0 | 71086 | LEC | 1DIS | Th | 07:00 - 09:30 pm | ARR | | Appelman,H |
| | | | Distance Course Rates Apply | | | | | | |
| 5704 Compliant Mechanism Design Prerequisites: Mech Eng 3313, Civ Eng 2210. | 3.0- 3.0 | 71853 | LEC | 1DIS | MWF | 10:00 - 10:50 am | ARR | | Midha,A |
| | | | Distance Course Rates Apply | | | | | | |
| 5757 Integrated Product And Process Design Prerequisites: Junior or above standing. (Co-listed with ENG MGT 5515) | 3.0- 3.0 | 72455 | LEC | 1DIS | M | 04:00 - 05:15 pm | ARR | | Grantham,K |
| | | | Distance Course Rates Apply | | | | | | |
| 5830 Applied Computational Methods Prerequisite: Comp Sci 1570 or 1970 or 1981; Math 3304. (Co-listed with Aero Eng 5830) | 3.0- 3.0 | 72168 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Hosder,S |
| | | | Distance Course Rates Apply | | | | | | |
| 6000 Special Problems | 0.0- 6.0 | 73037 | IND | 6DIS | ARR | ARR | ARR | | Dharani,L |
| 6099 Research Prerequisite: Consent of instructor. | 0.0-15.0 | 71279 | IND | 6DIS | ARR | ARR | ARR | | Birman,V |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 71587 | IND | 6DIB | ARR | ARR | ARR | | Dharani,L |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 71665 | IND | 6DIA | ARR | ARR | ARR | | Landers,R |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 72073 | IND | 6DIC | ARR | ARR | ARR | | Leu,M |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0-15.0 | 72678 | IND | 6DID | ARR | ARR | ARR | | Okafor,A |
| | | | Distance Course Rates Apply | | | | | | |
| 6123 Viscous Fluid Flow Prerequisite: Mech Eng 5131 or Aero Eng 5131 or Mech Eng 5139 or Aero Eng 5139 or equivalent. (Co-listed with Aero Eng 6123) | 3.0- 3.0 | 72015 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Isaac,K |
| | | | Distance Course Rates Apply | | | | | | |
| 6212 Advanced Finite Element Analysis Prerequisite: Mech Eng 5212 or Aero Eng 5212. (Co-listed with Aero Eng 6212) | 3.0- 3.0 | 71656 | LEC | 1DIS | TTh | 11:00 - 12:15 pm | ARR | | Chandrashekhara,K |
| | | | Distance Course Rates Apply | | | | | | |
| 6230 Theory Of Plates Prerequisite: Math 5325. | 3.0- 3.0 | 73241 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | | Birman,V |
| | | | Distance Course Rates Apply | | | | | | |
| 6458 Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Aero Eng 6458 and Sys Eng 6215) | 3.0- 3.0 | 72783 | LEC | 1DIS | CANCELLED | | | | |
| | | | Distance Course Rates Apply | | | | | | |
| 6481 Advanced Topics in Decision and Control | 3.0- 3.0 | 73507 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Balakrishnan,S |
| | | | Distance Course Rates Apply | | | | | | |
| 6527 Heat Transfer by Convection Prerequisite: Mech Eng or Aero Eng 5525. (Co-listed with Aero Eng 6527) | 3.0- 3.0 | 72014 | LEC | 1DIS | MWF | 09:00 - 09:50 am | ARR | | Homan,K |
| | | | Distance Course Rates Apply | | | | | | |

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|--|----------|--------|------------------------------------|------|-----|------------------|------|------|------------|
| 6659 Advanced Topics in Design and Manufacturing Prerequisites: Mech Eng 5655 or Mech Eng 5708 or equivalent. | 3.0- 3.0 | 71024 | LEC | 1DIS | TTh | 02:00 - 03:15 pm | ARR | | Liou,F |
| | | | Distance Course Rates Apply | | | | | | |
| 6663 Advanced Digital Design and Manufacturing Prerequisites: Mech Eng 5708 or Mech Eng 5757 or Mech Eng 5763 or equivalent. | 3.0- 3.0 | 72090 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Leu,M |
| | | | Distance Course Rates Apply | | | | | | |

Mining Engineering

| | | | | | | | | | |
|---|----------|-------|------------------------------------|------|-----|------------------|-----|--|---------------|
| 5412 Advanced Aggregates Sizing and Characterization Prerequisite: Mi Eng 4412 or Consent of Instructor. | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Galecki,G |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72329 | LAB | 3DIS | ARR | ARR | ARR | | Galecki,G |
| | | | Distance Course Rates Apply | | | | | | |
| 5423 Advanced Flotation and Hydrometallurgy Prerequisites: Mi Eng 4423 or Consent of Instructor. | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Alagha,L |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72655 | LAB | 3DIS | ARR | ARR | ARR | | |
| | | | Distance Course Rates Apply | | | | | | |
| 5424 Advanced Mechanics And Design Prerequisites: Mi Eng 4424 or Consent of Instructor. | 3.0- 3.0 | 73300 | LEC | 1DIS | ARR | ARR | ARR | | Alagha,L |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | | LAB | 3DIS | ARR | ARR | | | Alagha,L |
| | | | Distance Course Rates Apply | | | | | | |
| 5522 Advanced Ore Reserve Analysis And Geostatistics Prerequisites: Math 3304 & Stat 3113 or instructor consent. | 3.0- 3.0 | | LEC | 1DIS | MW | 10:00 - 10:50 am | ARR | | Awuah-Offei,K |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72890 | LAB | 3DIS | ARR | ARR | ARR | | Awuah-Offei,K |
| | | | Distance Course Rates Apply | | | | | | |
| 5742 Advanced Environmental Aspects of Mining Prerequisites: Min Eng 5932 and 5933 or instructor consent. (Co-listed with GE XXXX) | 3.0- 3.0 | 72330 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Awuah-Offei,K |
| | | | Distance Course Rates Apply | | | | | | |
| 5922 Advanced Tunneling & Underground Construction Techniques Prerequisites: Min Eng 4922 or Consent of Instructor. | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | | | Perry,K |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72335 | LAB | 3DIS | ARR | ARR | | | Perry,K |
| | | | Distance Course Rates Apply | | | | | | |
| 5933 Advanced Surface Mining Methods Prerequisites: Min Eng 4933 or Consent of Instructor. | 3.0- 3.0 | 72333 | LEC | 1DIS | MWF | 04:00 - 04:50 pm | ARR | | Frimpong,S |
| | | | Distance Course Rates Apply | | | | | | |
| 6000 Special Problems | 0.0- 6.0 | 70976 | IND | 6DIS | ARR | ARR | ARR | | Galecki,G |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0- 6.0 | 70977 | IND | 6DIB | ARR | ARR | ARR | | Ge,M |
| | | | Distance Course Rates Apply | | | | | | |
| | 0.0- 6.0 | 71467 | IND | 6DIA | ARR | ARR | ARR | | Weiss,D |
| | | | Distance Course Rates Apply | | | | | | |
| 6001 Special Topics | 3.0- 3.0 | 73467 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Weiss,D |
| | | | Intgrate NEPA and Proj Mgmt | | | | | | |
| | | | Distance Course Rates Apply | | | | | | |
| 6080 Graduate Project Prerequisites: Graduate Standing. | 3.0- 3.0 | 72625 | IND | 6DIS | ARR | ARR | ARR | | Galecki,G |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72626 | IND | 6DIB | ARR | ARR | ARR | | Weiss,D |
| | | | Distance Course Rates Apply | | | | | | |
| 6522 Mining Property Feasibility Studies And Evaluation Procedure Prerequisite: Min Eng 3512 or Geology 3511 or Min Eng 4742 or Geophys 3251. | 3.0- 3.0 | | LEC | 1DIS | ARR | ARR | ARR | | Weiss,D |
| | | | Distance Course Rates Apply | | | | | | |
| | 3.0- 3.0 | 72630 | LAB | 3DIS | ARR | ARR | ARR | | Weiss,D |
| | | | Distance Course Rates Apply | | | | | | |
| 6992 Research Methods Prerequisites: PhD students only. (Co-listed with Exp Eng 6292) | 3.0- 3.0 | 73298 | LEC | 1DIS | ARR | ARR | | | Lusk,B |
| | | | Distance Course Rates Apply | | | | | | |

Nuclear Engineering

| | | | | | | | | | |
|----------------------|----------|-------|------------------------------------|------|-----|-----|-----|--|-------|
| 6099 Research | 0.0-15.0 | 72387 | IND | 6DIS | ARR | ARR | ARR | | Lee,H |
| | | | Distance Course Rates Apply | | | | | | |

Philosophy

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|-----|-----|-----|--|---------|
| 4354 | Mathematical Logic I Prerequisite: Philos 3254 or Math 5105 or Comp Sci 2500 or Comp Eng 2210. (Co-listed with Comp Eng 5803, Comp Sci 5203 and Math 5154) | 3.0- 3.0 | 72611 | LEC | 1DIS | ARR | ARR | ARR | | Insal,E |
|------|--|----------|-------|-----|------|-----|-----|-----|--|---------|

Class meets February 1st through March 1st, 2017.
See 'Notes' for Class Schedule
Distance Course Rates Apply

Political Science

| | | | | | | | | | | |
|------|-----------------------|----------|-------|-----|------|-----|------------------|-----|--|-----------|
| 4001 | Special Topics | 3.0- 3.0 | 73328 | LEC | 1DIS | MWF | 12:00 - 12:50 pm | ARR | | Oerther,D |
|------|-----------------------|----------|-------|-----|------|-----|------------------|-----|--|-----------|

STEAM Diplomacy

Psychology

| | | | | | | | | | | |
|------|-------------------------|----------|-------|-----|------|-----|-----|-----|--|---------|
| 5000 | Special Problems | 0.0- 6.0 | 73576 | IND | 6DIS | ARR | ARR | ARR | | Stone,N |
|------|-------------------------|----------|-------|-----|------|-----|-----|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|-----------|------------------|-----|--|---------|
| 5001 | Special Topics | 3.0- 3.0 | 73337 | LEC | 1DIS | CANCELLED | | | | |
| 5201 | Psychometrics Prerequisite: Psych 5202. | 3.0- 3.0 | 72086 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | | Burns,D |

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|---|------------------|-----|--|-----------|
| 5600 | Advanced Social Psychology Prerequisite: Psych 4600. | 3.0- 3.0 | 73339 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Cundiff,J |
|------|--|----------|-------|-----|------|---|------------------|-----|--|-----------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|----|------------------|-----|--|---------|
| 5601 | Small Group Dynamics Prerequisite: Psych 4601 or graduate standing. | 3.0- 3.0 | 72836 | LEC | 1DIS | Th | 07:00 - 09:30 pm | ARR | | Shank,D |
|------|---|----------|-------|-----|------|----|------------------|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|---|------------------|-----|--|---------|
| 5700 | Job Analysis and Performance Management Prerequisite: Psych 4700 or graduate standing. | 3.0- 3.0 | 73338 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Stone,N |
|------|--|----------|-------|-----|------|---|------------------|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|---|------------------|-----|--|-----------|
| 6610 | Leadership, Motivation, and Culture Prerequisite: Psych 4610 or graduate standing. | 3.0- 3.0 | 73012 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | | Weidner,N |
|------|--|----------|-------|-----|------|---|------------------|-----|--|-----------|

Distance Course Rates Apply

Statistics

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|-----|------------------|-----|--|------------|
| 5346 | Regression Analysis Prerequisites: Math 2222 and one of Stat 3111, 3113, 3115, 3117, or 5643. (Co-listed with Comp Sci 5204) | 3.0- 3.0 | 72070 | LEC | 1DIS | MWF | 01:00 - 01:50 pm | ARR | | Olbricht,G |
|------|---|----------|-------|-----|------|-----|------------------|-----|--|------------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|-----|------------------|-----|--|------------|
| 5643 | Probability And Statistics Prerequisite: Math 2222. | 3.0- 3.0 | 72769 | LEC | 1DIS | MWF | 11:00 - 11:50 am | ARR | | Olbricht,G |
|------|---|----------|-------|-----|------|-----|------------------|-----|--|------------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|---|------------------|-----|--|----------|
| 6239 | Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Elec Eng 6340, Sys Eng 6214 and Comp Sci 6405) | 3.0- 3.0 | 73261 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | | Wunsch,D |
|------|--|----------|-------|-----|------|---|------------------|-----|--|----------|

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|-----|------------------|-----|--|----------------|
| 6344 | Design And Analysis Of Experiments | 3.0- 3.0 | 71801 | LEC | 1DIS | TTh | 09:30 - 10:45 am | ARR | | Samaranayake,V |
|------|---|----------|-------|-----|------|-----|------------------|-----|--|----------------|

Distance Course Rates Apply

Systems Engineering

| | | | | | | | | | | |
|------|-------------------------|----------|-------|-----|------|-----|-----|-----|--|---------|
| 5000 | Special Problems | 1.0- 6.0 | 72412 | IND | 6DIS | ARR | ARR | ARR | | Dagli,C |
|------|-------------------------|----------|-------|-----|------|-----|-----|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|---|------------------|-----|--|-----------|
| 5101 | System Engineering and Analysis Prerequisite: Graduate Standing. | 3.0- 3.0 | 71383 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Pape II,L |
|------|--|----------|-------|-----|------|---|------------------|-----|--|-----------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--|----------|-------|-----|------|---|------------------|-----|--|---------|
| 5212 | Introduction to Neural Networks and Applications Prerequisites: Graduate Standing. (Co-listed with Elec Eng 5370) | 3.0- 3.0 | 71974 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | | Dagli,C |
|------|--|----------|-------|-----|------|---|------------------|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|--------------------------------|----------|-------|-----|------|-----|-----|-----|--|--------|
| 6050 | Continuous Registration | 1.0- 1.0 | 71299 | IND | 6DIS | ARR | ARR | ARR | | Long,S |
|------|--------------------------------|----------|-------|-----|------|-----|-----|-----|--|--------|

Distance Course Rates Apply

| | | | | | | | | | | |
|------|---|----------|-------|-----|------|-----|-----|-----|--|---------|
| 6099 | Research Prerequisite: Graduate standing. | 1.0-15.0 | 72206 | IND | 6DIS | ARR | ARR | ARR | | Corns,S |
|------|---|----------|-------|-----|------|-----|-----|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|--|--|----------|-------|-----|------|-----|-----|-----|--|----------|
| | | 1.0-15.0 | 72207 | IND | 6DIA | ARR | ARR | ARR | | Cudney,E |
|--|--|----------|-------|-----|------|-----|-----|-----|--|----------|

Distance Course Rates Apply

| | | | | | | | | | | |
|--|--|----------|-------|-----|------|-----|-----|-----|--|---------|
| | | 1.0-15.0 | 72208 | IND | 6DIB | ARR | ARR | ARR | | Dagli,C |
|--|--|----------|-------|-----|------|-----|-----|-----|--|---------|

Distance Course Rates Apply

| | | | | | | | | | | |
|--|--|----------|-------|-----|------|-----|-----|-----|--|--------|
| | | 1.0-15.0 | 72209 | IND | 6DIC | ARR | ARR | ARR | | Enke,D |
|--|--|----------|-------|-----|------|-----|-----|-----|--|--------|

Distance Course Rates Apply

| CATALOG # AND COURSE TITLE | CREDIT | CLASS# | CMP | SEC | DAY | TIME | BLDG | ROOM | INSTRUCTOR |
|----------------------------|---|----------|-------|------|------|------|------------------|------|------------------------------------|
| | 1.0-15.0 | 72210 | IND | 6DID | ARR | ARR | ARR | | Gosavi,A |
| | | | | | | | | | Distance Course Rates Apply |
| | 1.0-15.0 | 72211 | IND | 6DIE | ARR | ARR | ARR | | Grantham,K |
| | | | | | | | | | Distance Course Rates Apply |
| | 1.0-15.0 | 72212 | IND | 6DIF | ARR | ARR | ARR | | Guardiola,I |
| | | | | | | | | | Distance Course Rates Apply |
| | 1.0-15.0 | 72213 | IND | 6DIG | ARR | ARR | ARR | | Konur,D |
| | | | | | | | | | Distance Course Rates Apply |
| | 1.0-15.0 | 72214 | IND | 6DIH | ARR | ARR | ARR | | Long,S |
| | | | | | | | | | Distance Course Rates Apply |
| | 1.0-15.0 | 72216 | IND | 6DIL | ARR | ARR | ARR | | Qin,R |
| | | | | | | | | | Distance Course Rates Apply |
| | 1.0-15.0 | 72217 | IND | 6DIM | ARR | ARR | ARR | | Raper,S |
| | | | | | | | | | Distance Course Rates Apply |
| 6102 | Information Based Design Prerequisites: Graduate Standing. | 3.0- 3.0 | 71078 | LEC | 1DIS | T | 04:00 - 06:30 pm | ARR | Guardiola,I |
| | | | | | | | | | Distance Course Rates Apply |
| 6103 | Systems Life Cycle Costing Prerequisites: Graduate Standing. | 3.0- 3.0 | 71202 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | Yildirim,G |
| | | | | | | | | | Distance Course Rates Apply |
| 6104 | Systems Architecting Prerequisites: Graduate Standing. | 3.0- 3.0 | 71079 | LEC | 1DIS | M | 04:00 - 06:30 pm | ARR | Dagli,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6105 | Complex Engineering Systems Project Management Prerequisites: Graduate Standing. | 3.0- 3.0 | 71712 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | Hoffman,G |
| | | | | | | | | | Distance Course Rates Apply |
| 6110 | Function-Based Risk Analysis | 3.0- 3.0 | 73347 | LEC | 1DIS | W | 07:00 - 09:30 pm | ARR | Qin,R |
| | | | | | | | | | Distance Course Rates Apply |
| 6196 | Systems Engineering Capstone Prerequisites: Sys Eng 6105. | 3.0- 3.0 | 71325 | LEC | 1DIS | M | 07:00 - 09:30 pm | ARR | Pape II,L |
| | | | | | | | | | Distance Course Rates Apply |
| 6214 | Clustering Algorithms Prerequisite: At least one graduate course in statistics, data mining, algorithms, computational intelligence, or neural networks, consistent with student's degree program. (Co-listed with Comp Eng 6330, Elec Eng 6340, Comp Sci 6405 and Stat 6239) | 3.0- 3.0 | 73263 | LEC | 1DIS | T | 07:00 - 09:30 pm | ARR | Wunsch,D |
| | | | | | | | | | Distance Course Rates Apply |
| 6215 | Adaptive Dynamic Programming Prerequisites: Elec Eng 5370 or Comp Eng 5310. (Co-listed with Comp Eng 6320, Elec Eng 6360, Mech Eng 6458 and Aero Eng 6458) | 3.0- 3.0 | 72785 | LEC | 1DIS | | | | CANCELLED |
| | | | | | | | | | Distance Course Rates Apply |
| 6216 | Advanced Topics in Data Mining Prerequisite: A "C" or better grade in Comp Sci 5001 Introduction to Data Mining . (Co-listed with Comp Sci 6402 and Comp Eng 6302) | 3.0- 3.0 | 72826 | LEC | 1DIS | MWF | 03:00 - 03:50 pm | ARR | Leopold,J |
| | | | | | | | | | Distance Course Rates Apply |
| 6321 | Modeling Complex Systems Prerequisites: Graduate Standing. (Co-listed with COMP ENG 6410) | 3.0- 3.0 | 72723 | LEC | 1DIS | W | 04:00 - 06:30 pm | ARR | Dagli,C |
| | | | | | | | | | Distance Course Rates Apply |
| 6322 | Resilient Networks Prerequisites: Sys Eng 6410, Comp Eng 6410, or Comp Eng 5420. (Co-listed with COMP ENG 6510) | 3.0- 3.0 | 72152 | LEC | 1DIS | | | | CANCELLED |
| | | | | | | | | | Distance Course Rates Apply |
| 6324 | Wireless Ad hoc and Sensor Networks Prerequisite: Comp Eng 5430 or Comp Eng 5420 or equivalent. (Co-listed with Comp Eng 6420 and Elec Eng 6430) | 3.0- 3.0 | 73272 | LEC | 1DIS | MWF | 08:00 - 08:50 am | ARR | Zawodniok,M |
| | | | | | | | | | Distance Course Rates Apply |
| 6542 | Model Based Systems Engineering Prerequisites: Graduate Standing. (Co-listed with COMP SCI 6102) | 3.0- 3.0 | 72933 | LEC | 1DIS | F | 04:00 - 06:30 pm | ARR | Do,Q |
| | | | | | | | | | Distance Course Rates Apply |