

# Nuclear Power Generation Systems

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This 16-hour minor prepares Auburn engineering students for careers specializing in the support and service of America's nuclear power generation industry. Students who complete this minor will have demonstrated an understanding of the industry's basic construction techniques, power plant models, integration into the national electrical grid and common reactor plant operations. Coursework for the minor will take place in the classroom as well as on-site at nuclear power generating facilities, and will be led by faculty and nuclear industry leaders. Areas of emphasis include: regulation, safety, reliability and dependability, radiological health and work control practices, and training requirements for operators and maintenance technicians.

| <b>Code</b>        | <b>Title</b>                                       | <b>Hours</b> |
|--------------------|--|--------------|
| ENGR 2700          | Nuclear Power Operations, System and Careers       | 1            |
| ENGR 3710          | Basic Nuclear I: Nuclear and Mechanical Systems    | 4            |
| ENGR 3720          | Basic Nuclear II: Materials, Electric, Electronics | 4            |
| ENGR 4710          | Advanced Reactor Operations I: Health and Safety   | 3            |
| ENGR 4720          | Advanced Reactor Operations II: Safe Operations    | 4            |
| <b>Total Hours</b> |  | <b>16</b>    |