

# SOLID STATE PHYSICS/ MATERIAL SCIENCE

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## Requirements

### Required Courses

| Code                         | Title                                  | Hours     |
|------------------------------|--|-----------|
| PH 405                       | Semiconductor Materials & Applications | 4         |
| NE 406                       | Semiconductor Devices & Fabrication    | 4         |
| ME 328/CHE 315               | Materials Engineering                  | 4         |
| Select two of the following: |  | 8         |
| NE 330                       | Material Failure                       |           |
| NE 408                       | Microsensors and Actuators             |           |
| OE 360                       | Optical Materials                      |           |
| PH 407                       | Solid State Physics                    |           |
| PH 440                       | X-rays & Crystalline Materials         |           |
| PH/ME 490                    | Directed Research                      |           |
| ME 302                       | Heat Transfer                          |           |
| ME 417                       | Advanced Materials Engineering         |           |
| <b>Total Hours</b>           |  | <b>20</b> |

Eligibility: Students in any degree program, except students who are working for the Semiconductor Materials and Devices Certificate