## *Required Courses:*

| Course # | Course Description | Credits |
|---|---|---|
| 3650 : 551 | Advanced Lab I | 3 |
| 3650 : 615 | Electromagnetic Theory I | 3 |
| 3650 : 625 | Quantum Mechanics I | 3 |
| 3650 : 641 | Lagrangian Mechanics | 3 |
| 3650 : 661 | Statistical Mechanics | 3 |
| 3650 : 685 | Solid State Physics I | 3 |

## *Electives:*

| Course # | Course Description | Credits |
|---|---|---|
| 3650 : 552 | Advanced Lab II | 3 |
| 3650 : 556 | Teaching Physics | 1 |
| 3650 : 570 | Introduction to Solid-State Physics | 3 |
| 3650 : 581 | Methods of Mathematical Physics I | 3 |
| 3650 : 582 | Methods of Mathematical Physics II | 3 |
| 3650 : 590 | Workshop | 4-Jan |
| 3650 : 598 | Colloquium | * |
| 3650 : 605 | Computer Physics I | 3 |
| 3650 : 606 | Computer Physics II | 3 |
| 3650 : 616 | Electromagnetic Theory II | 3 |
| 3650 : 626 | Quantum Mechanics II | 3 |
| 3650 : 686 | Solid State Physics II | 3 |
| 3650 : 689 | Special Problems Theoretical Physics | * |
| 3650 : 697 | Graduate Research | * |
| 3650 : 698 | Special Topics: Physics | * |
| 3650 : 699 | Master's Thesis | * |

*** NOTE:** Maximum number of credits that count toward degree:

5 credits for 697 Graduate Research

1 credit for 598 Colloquium
2 credits for 689 Special Problems Theoretical Physics or 698 Special Topics: Physics

1 credit for 699 M.S. Thesis

## *Suggested Programs:*

A student preparing for further graduate work in a physical science or for academic or industrial employment should include the following courses in the graduate program:

| **Course #** | **Course Description** | **Credits** |
|---|---|---|
| 3650 : 581 | Methods of Mathematical Physics I | 3 |
| 3650 : 582 | Methods of Mathematical Physics II | 3 |
| 3650 : 616 | Electromagnetic Theory II | 3 |
| 3650 : 626 | Quantum Mechanics II | 3 |
| 3650 : 552 | Advanced Lab II | 3 |
| | Total credits: | 15 |

A student preparing for teaching secondary school science should include the following courses in the graduate program:

| **Course #** | **Course Description** | **Credits** |
|---|---|---|
| 3650 : 590 | Workshops (maximum credit) | 6 |
| | Total credits: | 12 |