## Degree Worksheet

| Mason Core Requirements | | | Grades | |
|---|---|---|---|---|
| **Mason Core Foundation** | | **Credits** | **Earned** | **Needed** |
| Written Communication (lower-level) | ENGH 100 or 101 or 123 | 3 | | |
| Oral Communication | | 3 | | |
| Quantitative Reasoning | Satisfied by MATH 113 | 3 | | |
| Information Technology & Computing | Satisfied by PHYS 251 | 3 | | |
| **Mason Core Exploration** | | | | |
| Arts | | 3 | | |
| Global Understanding | | 3 | | |
| Literature | | 3 | | |
| Natural Science Overview | Satisfied by PHYS 160 or 170 | 3 | | |
| Natural Science with Lab | Satisfied by PHYS 260/261 or PHYS 270/261 | 4 | | |
| Social and Behavioral Sciences | | 3 | | |
| Global History | HIST 125 (or HIST 394 in special cases) | 3 | | |
| **Mason Core Integration** | | | | |
| Written Communication (upper-level) | ENGH 302 | 3 | | |
| Writing Intensive | Satisfied by ASTR 402 | 4 | | |
| Mason Apex | Satisfied by ASTR 402 | 4 | | |

| Major Requirements<br>Students must complete major requirements with a minimum GPA of 2.00 | | | Grades | |
|---|---|---|---|---|
| **Required Astronomy Courses (14 Credits)** | | **Credits** | **Earned** | **Needed** |
| ASTR 124 | Introduction to Observational Astronomy | 1 | | |
| ASTR 210 | Introduction to Astrophysics | 3 | | |
| ASTR 328 | Stars | 3 | | |
| ASTR 401 | Computer Simulation in Astronomy | 3 | | |
| ASTR 402 | RS: Methods of Observational Astronomy | 4 | | |
| **Required Physics Courses (24 Credits)** | | | | |
| PHYS 160 or 170 | University Physics I | 3 | | |
| PHYS 161 | University Physics I Laboratory | 1 | | |
| PHYS 260 (if 160 above) or 270 (if 170) | University Physics II | 3 | | |
| PHYS 261 | University Physics II Laboratory | 1 | | |
| PHYS 251 | Intro. to Computer Techniques in Physics | 3 | | |
| PHYS 262 | University Physics III | 3 | | |
| PHYS 301 | Analytical Methods of Physics | 3 | | |
| PHYS 303 | Classical Mechanics | 3 | | |
| PHYS 305 | Electromagnetic Theory | 3 | | |
| | | | | |
| **Required Math Courses (14 Credits)** | | | | |
| MATH 113 | Analytic Geometry and Calculus I | 4 | | |
| MATH 114 | Analytic Geometry and Calculus II | 4 | | |
| MATH 213 | Analytic Geometry and Calculus III | 3 | | |
| MATH 214 | Elementary Differential Equations | 3 | | |
| **Additional Coursework (21 credits)** | | | | |
| **Select 21 credits from the following:** ASTR 301, ASTR 403, ASTR 404, ASTR 408 or ASTR 409, ASTR 420, ASTR 480, PHYS 306, PHYS 307, PHYS 311, PHYS 312, PHYS 325, PHYS 402, PHYS 403, PHYS 428, PHYS 440, PHYS 465, PHYS 475 | | 21 | | |

| Degree Notes |
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| Students must complete a total of 58 credits in Physics and Astronomy and 14 credits in Mathematics with a minimum GPA of 2.00. A total of 120 credits, with 45 numbered 300 or above, is required. |