**Physics Course Supplement**Please list all of the college or university Physics and Mathematics courses you have taken to date, are now taking, and plan to take before graduation. Organize the courses by discipline and list in order taken from oldest to most recent. List each course individually. For “Primary Text”, list the author and title of the primary textbook used in each course. For “Semester Completed”, list the term and year (e.g. “Fall ’17”, “Winter ’19”, etc.) For “Grade”, enter your final grade in the course. If you audited the course without receiving a grade, enter “AUDIT”. All final grades provided here must ALSO be noted on your official transcript. If any of the requested information is not applicable in some situations (e.g. the grade for a course in progress, a course did not use a textbook, your university does not use course numbers, etc.), simply leave the corresponding box blank.  Please remember to save this as a Word document.

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| **Course Name** | **Course Number** | **Grade** | **Semester Completed** | **Primary Text (Author/Title)** |
| Modern Physics I | PH241 | A+ | Fall ‘17 | Morin, Special Relativity: For the Enthusiastic Beginner + Eisberg & Resnick, Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles |
| Modern Physics II | PH242 | A+ | Spring ‘18 | Eisberg & Resnick, Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles |
| Classical Mechanics | PH311 | A+ | Spring ‘18 | John R. Taylor, Classical Mechanics |
| General Relativity & Cosmology | PH335 | A | Fall ‘18 | Foster & Nightingale, A Short Course in General Relativity |
| Thermodynamics & Statistical Mechanics | PH332 | A+ | Spring ‘19 | Schroeder, An Introduction to Thermal Physics |
| Independent Study (classical field theory) | PH492 | A+ | Spring ‘19 | Carroll, Spacetime and Geometry |
| Quantum Mechanics | PH431 | A+ | Fall ‘19 | Griffiths, Introduction to Quantum Mechanics |
| Independent Study (massive gravity) | PH491 | A+ | Fall ‘19 | papers + A. Zee, Quantum Field Theory in a Nutshell |
| Electricity & Magnetism | PH321 | A | Fall ‘19 | Griffiths, Introduction to Electrodynamics |
| Internship: Joint Quantum Institute: College Park | PH090 |  | Jan ‘20 |  |
| Topics in Quantum Information | PH398 | A+ | Spring ‘20 | Mermin, Quantum Computer Science |
| Independent Study (massive gravity, cont.) | PH492 | A+ | Spring ‘20 | papers + A. Zee, Quantum Field Theory in a Nutshell |
| Experimental Soft Matter Physics | PH333 |  | Fall ‘20 |  |
| Independent Study (quantum field theory) | PH491 |  | Fall ‘20 | Peskin & Schroeder, An Introduction to Quantum Field Theory |
| Physics Honors Project (experimental atomic physics) | PH483 |  | Fall ‘20 |  |
| Senior Physics/Astronomy Seminar | PH401S |  | Spring ‘21 |  |
| Physics of Fluids | PH312 |  | Spring ‘21 |  |
| Independent Study (quantum field theory, cont) | PH492 |  | Spring ‘21 | Peskin & Schroeder, An Introduction to Quantum Field Theory |
| Physics Honors Project (experimental atomic physics) | PH484 |  | Spring ‘21 |  |
| Honors Calculus I | MA161 | A+ | Fall ‘17 | Spivak, Calculus |
| Honors Calculus II | MA162 | A | Spring ‘18 | Spivak, Calculus |
| Linear Algebra | MA253 | A+ | Spring ‘18 | Bretscher, Linear Algebra with Applications |
| Ordinary Differential Equations | MA311 | A+ | Fall ‘18 |  |
| Probability | MA381 | A | Fall ‘18 | Seppalainen, Anderson, Valko, Introduction to Probability |
| Vector Calculus | MA262 | A+ | Fall ‘18 | Colley, Vector Calculus |
| Matrix Analysis (linear algebra II) | MA353 | A+ | Spring ‘19 | Garcia & Horn, A Second Course in Linear Algebra |
| Topics in Partial Differential Equations | MA411 | A+ | Spring ‘19 | Farlow, Partial Differential Equations for Scientists and Engineers |
| Complex Analysis | MA352 | A+ | Fall ‘19 | Churchill & Brown, Complex Variables and Applications |
| Abstract Algebra | MA333 | A+ | Fall ‘19 | Gallian, Contemporary Abstract Algebra |
| Real Analysis | MA338 | A+ | Spring ‘20 | Rudin, Principles of Mathematical Analysis |
| Statistical Inference | MA/SC482 | A | Spring ‘20 | Hogg, McKean, Craig, Introduction to Mathematical Statistics |
| Independent Study (harmonic analysis) | MA492 | A+ | Spring ‘20 |  |
| Topics in Abstract Algebra (algebraic geometry) | MA434 | A+ | Spring ‘20 | Reid, Undergraduate Algebraic Geometry |
| Topics in Real Analysis (functional analysis + topology) | MA439 |  | Fall ‘20 | Willard, General Topology |
| Mathematics Honors Project (mathematical analysis) | MA483 |  | Fall ‘20 |  |
| Theory of Computation | MA/CS378 |  | Spring ‘21 |  |
| Mathematics Honors Project (mathematical analysis) | MA484 |  | Spring ‘21 |  |