



The State University
of New York

Transfer Path

Discipline: Physics

SUNY transfer paths outline the knowledge and skills that are essential for students to complete during their first two years of study for a major in a given discipline. The coursework described below will meet degree requirements at all SUNY campuses offering majors in the above discipline. If you complete this coursework successfully, you will be well-positioned to finish your degree with an additional two years of study at your SUNY transfer college.

Use this transfer path to discover both courses related to your major and general education requirements that will prepare you for transfer. Click on each course to view a course description. Then, to map your first two years of courses, visit [Planning Your Coursework](#).

Lower-Division Major Requirements

The courses below are specifically related to your field of study and are part of the requirements for graduation in your major:

- Calculus-based Physics I: Mechanics (with lab)
- Calculus-based Physics II: Electromagnetism (with lab)
- Calculus-based Thermodynamics and Modern Physics (with lab)
- Calculus-based Oscillatory Motion and Waves
- [Calculus I](#)
- [Calculus II](#)
- [Calculus III](#)
- Differential Equations AND Linear Algebra OR Mathematical Methods in Physics course
- [General Chemistry I \(with lab\)](#)
- [General Chemistry II \(with lab\)](#)
- Introduction to Computer Science

Advising Notes

While different schools may pair up the topics differently, it is important for the students to have adequate and in-depth coverage of mechanics, electricity, magnetism, waves, thermodynamics, and modern physics to begin their junior level courses. Some colleges use a two or three semester physics sequence in place of the four semester sequence. In such cases, some additional courses may be needed after transferring.



Advising Notes (cont'd)

There may be additional courses in your major which would transfer, or courses which could be substituted for one of the above. These may be established on a case by case basis. Please see an advisor at your transfer campus to explore those options.

General Education Requirements

General Education courses are related to key academic disciplines and may be outside your field of study. To earn a SUNY AA/AS or bachelor's degree, you must earn 30 credits in at least seven of the following ten skill areas, and demonstrate two competencies.

Skill Areas:

- Basic Communication (required)
- Mathematics (required)
- American History
- Other World Civilizations
- Foreign Language
- Social Sciences
- Humanities
- The Arts
- Natural Sciences
- Western Civilization

Competencies:

- Critical Thinking (required)
- Information Management (required)

General Education requirements vary by campus and by major. However, if you satisfy the SUNY General Education Requirement (SUNY-GER) area at one campus with a grade of C or higher, you will have met that SUNY-GER area at every other SUNY campus. Visit [Campus Requirements](#) to determine the skill areas required by each campus and the courses available within those areas.

Note: The lower division major requirements outlined in this document will be implemented for SUNY students entering Fall, 2015. Check with your campus advisor for more information regarding current requirements.

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