Physics, MNS

Designed for in-service science teachers, this interdisciplinary ASU MNS program provides practical pedagogy with an emphasis on the modeling method of instruction as well as strong content in both contemporary physics and integrated science. Residents of 15 western states may apply for in-state tuition.

Program Description

Degree Awarded: MNS Natural Science (Physics)

The MNS program in physics provides transdisciplinary graduate training in physics, physical science or physics education. The program is especially suited for high school science teachers who desire professional training rather than research training. Designed for flexibility, the curriculum also features individualized professional graduate programs. These programs are well-suited to the backgrounds and goals of students. Students are expected to emphasize coursework in two or more areas of concentration. The program must be transdisciplinary.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus

Degree Requirements

30 credit hours including the required applied project course (PHS 593)

The graduate advisor and the student suggest three faculty members who reflect the transdisciplinary nature of the program to serve on the supervisory committee, which upon the recommendation of the chair of the Department of Physics is appointed by the vice provost for the Graduate College soon after the student has been admitted to the degree program.
After conferring with the student, the supervisory committee will recommend the plan of study. The committee may require additional coursework to ensure proficiency, depending upon the student's background and the nature of the proposed program. In some cases, undergraduate courses may be required to overcome deficiencies.

Teachers may enroll in these courses in order to earn credit toward recertification or to pursue a Master of Natural Science degree. These courses are held during the summer. Depending on teacher interest, they may be offered at other times. For some courses, the prerequisites are two semesters of trigonometry-based college physics and an introductory calculus course.

**Admission Requirements**

Applicants must fulfill the requirements of both the Graduate College and The College of Liberal Arts and Sciences.

Applicants are eligible to apply to the program if they have earned a bachelor's degree from a regionally accredited institution. The program is open to in-service high school teachers who have completed two semesters of college physics and an introductory calculus course. Under-prepared teachers can make up deficiencies in regularly scheduled courses. Students must be able to attend classes in-person at the Tempe campus.

Applicants must have a minimum of a 3.00 GPA (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum of a 3.00 cumulative GPA (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts of all undergraduate and graduate coursework
3. two letters of recommendation
4. personal statement
5. proof of English proficiency

**Additional Application Information**

An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

The letters of recommendation should be from individuals familiar with the applicant's work or studies relevant to the natural science program.
Conditions for admission are the availability of resources for the proposed program and a Department of Physics faculty member designated to serve as a graduate advisor.

Contact Information

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