

University of Wisconsin Oshkosh CAPP Program
Department of Physics & Astronomy Adjunct Requirements

1. Lead Time

High schools seeking CAPP affiliation with the Department of Physics & Astronomy at the University of Wisconsin Oshkosh should contact the CAPP Office and the Physics Department Liaison Faculty at least six months prior to course set-up. This time is needed to approve adjunct faculty, schedule planning meetings, and prepare course materials.

2. High School Faculty Approval Process

A high school faculty member who is to be considered for teaching a CAPP physics course must meet the following conditions:

- A.** Submit to the CAPP Office the following materials: a recent vita (including number of years of physics teaching experience and professional activities), undergraduate and graduate transcripts, a letter of recommendation from the high school principal or supervisor, and a statement of teaching philosophy. The Physics Department will receive these materials from the CAPP Office as part of the normal approval process.
- B.** High school CAPP faculty must demonstrate an excellent teaching record, and **i)** have a Master's Degree in Physics or closely related field (e.g. Mathematics or Engineering), or **ii)** have an undergraduate degree (B.A. or B.S.) in Physics and a Master's Degree in Education, or **iii)** an undergraduate degree (B.A. or B.S.) in Physics Education with a Physics Certification and a Master's Degree in Education.
- C.** High School Adjunct Faculty must be approved by the CAPP Office, the Physics Department Chair, and the Physics Department Liaison Faculty.

3. Course Options

It is anticipated that the most suitable courses for the majority of high schools participating in CAPP are Physics 107 and Physics 108, the algebra-based general physics sequence with associated laboratory session. Physics 107 can be offered over two high school semesters, or Physics 107 and 108 can be offered in parallel with the university counterparts over two semesters.

High schools that also offer calculus and have sufficiently high demand may also offer Physics 109 and Physics 110, the calculus-based general physics sequence with associated laboratory session. As with the university physics course, concurrent registration or previous completion of first semester calculus (differential calculus) is a prerequisite for enrollment in Physics 109. The prerequisite for Physics 110 is concurrent registration in or previous completion of second semester calculus (integral calculus). The use of calculus in the physics curriculum is required for these courses. Physics 109 can be offered over two high school semesters, or Physics 109 and 110 can be offered in parallel with the university counterparts over two semesters.

Physics 103 The Solar System and Physics 104 Stars, Galaxies and the Universe are also appropriate as CAPP offerings provided the adjunct faculty member has sufficient demonstrated background in astronomy. Typically, this would include an astronomy degree in place of the physics degree in the list of acceptable credentials. These astronomy courses can also be offered in a non-laboratory format as Physics 113 and Physics 114 for three credits

each rather than the usual four. Physics 103 (Physics 113) can be offered over two high school semesters, or Physics 103 (Physics 113) and 104 (Physics 114) can be offered in parallel with the university counterparts over two semesters.

The CAPP Office will determine the equivalence of high school class time and university credit hours for all courses.

4. Preliminary Planning

At least one face-to-face planning session between the High School Adjunct Faculty and the Physics Department Liaison Faculty must occur prior to the course start-up. This planning session should take place after the high school adjunct faculty member has been approved.

5. Materials

The textbook, scope and sequence of topics, and the course syllabus should be as nearly the same as possible to the university courses. Both university and high school faculty should exchange syllabi, tests, and other course materials that will be used during the CAPP physics course.

6. Student Exposure to University CAPP Faculty

All CAPP physics offerings should include some form of teaching interaction—guest lectures, problem sessions, demonstrations or workshops, small-group sessions—between the high school students and the university liaison faculty member. The number of interactions per course is set by CAPP policies.

7. Technology Policy

CAPP physics courses should include as much computer-based data acquisition and analysis as is practicable. It is the opinion of the Physics Department that computer technology does much to enhance the learning experience by relieving some of the tedium associated with data acquisition and analysis.

8. Evaluation

Near the end of each CAPP physics class, the appointment of the High School Adjunct Faculty will be reviewed by the CAPP Office, the Physics Department Chair, and the Physics Department Liaison Faculty. This will be a formal evaluation to determine whether or not to continue CAPP affiliation for the subsequent year. Evaluations will also be provided to adjunct faculty, students, and parents.

Department Chair

Date

CAPP Liaison Faculty

Date

Revised: 11 November 2011