

**Mathematics Department**  
**Vision - Mission – Values - Goals**  
**Fall 2005 – Fall 2010**

### Vision

The Phoenix College Mathematics Department will promote and support a comprehensive, innovative and dynamic learning environment that meets the changing needs of a diverse global student population.

### Mission

The Phoenix College Mathematics Department provides an exemplary mathematics program that prepares students to be life-long learners and responsible, numerate citizens. The department provides meaningful support services, responds to the changing environment of mathematics education and promotes effective instructional strategies with students actively participating in the learning process.

### Values

The Phoenix College Mathematics Department provides a learning environment founded in the PC Basics.

### Goals

1. Provide a learning environment that actively involves students in a meaningful educational process;
  - a. support the standards of NCTM, MAA, ArizMATYC, and AMATYC,
  - b. set up a math resource center complete with manipulatives, tutoring, quiet study areas, computers, and multi-media library featuring topics relating to math,
  - c. improve the appearance of classrooms by equipping rooms with visual aids and models demonstrating math principles,
  - d. use a variety of texts that stimulate creativity, critical thinking and use of technology,
  - e. provide light, bright, and well-maintained classrooms and hallways that meet OSHA standards,
  - f. develop and implement a departmental technology plan.
2. Provide classrooms with appropriate furniture and technologies for interactive teaching methods;
  - a. equip all classrooms with fully loaded teacher stations with appropriate software and wireless internet,
  - b. expand the use of graphing calculators to all of the math classes,
  - c. provide classroom sets of calculators and other appropriate technology for student use,
  - d. equip classrooms with computers/teacher stations, graphing calculator overheads, charts, pad cameras, current multi-media, and wireless internet for student use,
  - e. enhance learning environments by furnishing classrooms with appropriate, updated furniture
3. Provide positive experiences that stimulate an interest in and an appreciation for mathematics;
  - a. continue the annual Math Awareness Event,
  - b. continue the annual participation in the AMATYC math contest,
  - c. present at least one math-related speaker per semester,
  - d. continue the working partnership with the Math/Science Center,
  - e. partner with area businesses to support math activities.

4. Assist students to achieve goals;
  - a. post math course flowcharts throughout the campus,
  - b. provide a full-time member of the math department for advisement during summer months,
  - c. continue to expand math scholarship offerings
5. Provide students with a choice of learning environments;
  - a. create interdisciplinary courses through learning communities
  - b. provide alternative access scheduling
  - c. encourage and support faculty classroom research
6. Increase the participation, retention, and success for students enrolled in mathematics;
  - a. continue to offer weekend classes and mini courses,
  - b. expand multi-media holdings
  - c. integrate interesting, applied problems from industry, chemistry, physics, nursing, etc. into math courses
  - d. continue to offer flexible scheduling of faculty so evening students have greater access to full-time faculty,
  - e. continue the tutoring services in the math study area
7. Provide support services to accommodate a diverse student population;
  - a. hire students from diverse backgrounds as tutors,
  - b. provide an adequate supply of graphing calculators for student rental,
  - c. provide math software for all courses in the library, math zone and all other appropriate areas for students to use and explore,
  - d. continue to provide a minimum of 60 clock hours per week of peer tutoring in the Math Zone,
  - e. continue to provide at least two faculty tutors/advisors in the Math Zone, Math/Science Center, and the Learning Center each semester,
  - f. recruit and retain faculty with diverse backgrounds.
8. Be a resource for the community;
  - a. improve the World Wide Web page for the PC Math dept. The page would include course information, Math Zone hours, schedule updates, etc.
  - b. have an annual event with math faculty from high schools to discuss curriculum and articulation issues,
  - c. form a partnership with feeder K–12 schools,
9. Support professional development of full-time and part-time mathematics faculty;
  - a. continue joint department meetings to encourage communication between part-time and full-time PC faculty,
  - b. have two math department meetings per month; a business meeting and a “theme” meeting to allow PC math faculty to discuss teaching techniques, pedagogical issues, etc.
  - c. promote and support faculty membership and participation in ArizMATYC, AMATYC, and other professional organizations,
  - d. re-establish our relationship with the PUHSD math instructional council.
  - e. provide professional growth opportunities (in house),
  - f. continue to encourage and support a variety of teaching styles to provide choices for various learning styles.
10. Assess students’ success;
  - a. continue to provide at least one member of the math department to serve on the campus wide assessment committee,
  - b. continue reassigned time to improve the assessment process.