

## **Section 1. COLLEGE OF SCIENCE MISSION AND GOALS**

**1.1 Mission and Philosophy.** The natural sciences and mathematics play a significant and fundamental role in all of higher education, and especially at an institute of technology, both as the required foundational knowledge and skills for the professions and as an essential component of general education of all students. The College of Science will prepare graduates for careers in the physical, life and mathematical sciences through the granting of degrees in these areas and will provide mathematical and scientific foundations for all RIT students.

### **1.2 Goals and Objectives.**

**Goal 1:** Optimize learning and success for all students of mathematical, physical and life sciences.

*Objective 1:* Offer academic programs in mathematical, physical and life sciences for students aspiring to careers in these fields.

*Objective 2:* Offer courses in the sciences and mathematics for students in other RIT Colleges with a focus and at a level appropriate to their respective disciplines with standards consistent with *bona fide* post-secondary education.

*Objective 3:* Encourage and support the scholarship of discovery, pedagogy, integration, and application by faculty and students.

*Objective 4:* Provide students a knowledge and understanding of the basic laws of science and mathematics, skills in laboratory and experimental work, and an ability to apply scientific knowledge in the solution of problems.

*Objective 5:* Assist students in developing critical thinking and an appreciation for the role of science and scientific inquiry in our society.

*Objective 6:* Design, acquire, maintain, and effectively utilize the facilities, space, laboratories, and equipment required to meet the instructional and scholarship needs of the College of Science educational program.

**Goal 2:** Recruit, support and retain an outstanding faculty.

*Objective 1:* Engage in vigorous recruitment of high quality faculty.

*Objective 2:* Support development of opportunities for extramural support of excellence in faculty teaching, scholarship and other forms of professional activity.

*Objective 3:* Provide an environment of support and mentorship to encourage faculty professional growth.

*Objective 4:* Ensure full compliance with university guidelines and procedures for performance evaluation and Plan of Work exercises to help manage faculty careers.

**Goal 3:** Attract and retain a successful student body for the academic programs of the College.

*Objective 1:* Aggressively recruit high quality students.

*Objective 2:* Develop and commit to strategies designed to retain students.

*Objective 3:* Offer high quality academic programs incorporating current knowledge and modern techniques relevant to identified needs of contemporary society.

*Objective 4:* Provide strong and effective academic and career advising and other relevant support to assist students in achieving the highest level of educational and professional success of which they are capable.

*Objective 5:* Place student success at the center of faculty and staff focus in programmatic academic unit operations.

**Goal 4:** To work with individuals, groups, and organizations within the RIT community and beyond in support of the goals of the College and Institute.

*Objective 1:* Establish and maintain collaborations with the K-12 community in response to expressed needs for additional knowledge and skills in mathematics, science and current scientific instrumentation and techniques.

*Objective 2:* Establish and maintain advisory boards for specific programs and for the College of Science.

*Objective 3:* Increase interaction and collaboration with community colleges to facilitate and encourage student transfer to College of Science programs.

*Objective 4:* Initiate contact and cultivate interaction with business, industry and government to develop and implement collaborative programs in mathematics and the sciences.

*Objective 5:* Actively collaborate with other units of RIT to best meet student and programmatic needs.

*Objective 6:* Develop strong and on-going relationships between the College of Science and its alumni and increase the involvement of alumni in the development of the College and its programs.