



**Introduction to Science
Research
URP 150/250
Syracuse University**



COURSE DESCRIPTION

The primary goals of the Science Undergraduate Research Program (URP) is to provide critical opportunities for students to understand what constitutes modern scientific research and to gain first-hand mentored experience with research in scientific disciplines. These goals are achieved through both a close examination of the scientific discovery and communication process as well as through direct "hands-on" involvement in carefully guided basic and applied research projects. The program involves a multi-year approach, with each year focused upon an exploration of different aspects of scientific inquiry and discovery. University credit (URP 150) is provided for students enrolled in their junior year (4 credits per year). University credit (URP 250) is provided for students enrolled in their senior year. Often, however, students will begin the research sequence during their sophomore years. Each year of the program is focused upon different broad themes in exploring scientific research. These themes progress from an in-depth examination of the scientific method itself through the completion of a significant research experience for the student. These themes broadly explore the "basic tools of scientific research and discovery," the "process of scientific research" and the "results of scientific research."