



A Cyber Village is being developed within the Division of Science and Mathematics at Morehouse College to supply a repository of knowledge in one place to facilitate networking. This virtual society will be available for students to collaborate with other students, alumni, and faculty mentors allowing them to showcase their accomplishments, share their research experience, and search for tools needed to succeed. The main goal of the Cyber Village is to increase the success and retention rate of science and mathematics majors, and encourage student participation in summer and academic year research. The Cyber Village will be launched in the fall of 2009 and will feature a wide variety of tools for students, faculty, alumni and science professionals.

- **Programs and Minors:** List and description of stipend research programs, special interest sponsored programs and minors.
- **Research:** Local student research opportunities, links to summer research opportunities, blog for students to voice opinions on summer research experiences, and more.
- **Events and News:** Division calendar, newsletters, seminars and conferences.
- **Faculty:** Biographies of faculty members, faculty interviews, online polls, faculty forum.
- **Student:** Student portfolios, resumes, workshops, online study groups, alumni forum, and online polls.
- **Resource:** Tutorials and educational packages, sample quizzes and tests, live presentations, stipends and scholarships, and the Cyber Village user guide.

If you wish to participate in the planning and development of this exciting medium, call Alicia Thomas at 404 681-5373.



STEM Talent Expansion Program

At Morehouse College

Science, Technology Engineering and Mathematics -STEM Talent Expansion Program



Scientific Literacy

New Course in the Division of Science & Mathematics

In the upcoming fall semester of 2009, the first Scientific Literacy course for freshmen science, technology, engineering and mathematics (STEM) majors in the Division of Science and Mathematics will be offered. The goal of this course is to provide a learning experience to enhance the scientific literacy of freshmen STEM majors. A scientifically literate freshman STEM major can be generally defined as one that possesses competencies in scientific reasoning, quantitative literacy and the self-efficacy to become a scientist. Literature documents that freshmen STEM majors that possess these skills are more successful in their academic achievements.

To accomplish this goal the one-credit hour, three semester Scientific Literacy course incorporates a unique combination of proven components from freshmen seminar courses, quantitative literacy courses, learning strategies seminars and personal future building workshops (see figure on page two). In this series of courses students will: discover the nature of scientific research; learn the interdisciplinary nature of science, technology and mathematics; develop the ability to evaluate scientific evidence; practice participating in scientific discourse; improve their aptitude for quantitative literacy, scientific reasoning and critical thinking; discover new and exciting career opportunities in STEM; participate in the team learning and discovery process; and strengthen their STEM self-efficacy or identity as a future scientists.

For more information about the Scientific Literacy course call Alicia Thomas at 404 681-5373.



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The STEP Program

The Science, Technology Engineering and Mathematics (STEM) Talent Expansion Program (STEP) was funded by NSF in September of 2009, with a goal of enhancing success in STEM by building skills and providing interventions. The PI on this NSF grant is Dr. Lycurgus L. Muldrow, Director of Sponsored Research for the Division of Science and Mathematics. The CoPIs are Dr. Subhash Bhatia, Dr. Lance Shipman-Young and Dr. David Cooke, and the Program Manager is Dr. Alicia Thomas. There are two main components in this program, the Scientific Literacy Course (Figure 1) and a Comprehensive Support Program (Figure 2).

