



CENTER FOR INFRASTRUCTURE ENGINEERING STUDIES

Minority Intro To Engineering (MITE), Mathematics Engineering
Science Achievement (MESA)

By

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**UTC
ETT140**

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16. Abstract MITE (Minority Intro To Engineering) 2005 Summer Camp – June 2005 – Students are expected to pay a \$100 registration fee plus cover their transportation to Rolla. All other costs, estimated at \$400 per person include fees, supplies, and room and board; activities for the program are paid by the Minority Engineering Program. Our goal is to recruit 40 students to participate in the program. The one-week program is designed to enable minority (African American, Hispanic American, and Native American) students who will be juniors and seniors during the 2004-05 school term to obtain a clear picture of engineering as a profession. Students become acquainted with various fields of engineering and science and with the demand faced in these fields by practicing engineers and scientists. Another goal is to acquaint students with the type of effort required for college study. Mathematics, Engineering, Science Achievement (MESA) To provide enriching opportunities in mathematics, engineering, and science for underrepresented students in grades K-12 in Missouri through the use of exemplary materials and instructional approaches. Missouri MESA will accomplish its mission through a partnership of higher education, university, business, and government, as well as school districts, community organizations, families, and alumni. Activities such as peer tutoring and mentoring, field trips to colleges, industry, research laboratories, museums, and science centers, career and guidance counseling, leadership training, summer academic programs, internships and research opportunities, scholarships, and teacher professional development are offered.			
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Minority Intro to Technology & Engineering (MITE) 112 students total

The programs helped the students obtain a clear picture of engineering, science, and technology as a profession and to become acquainted with the various fields. The students had the opportunity to participate in several hands –on activities, and to interact with UMR students, faculty and staff.



- *June 5 - 10, 2005 Lisa Anderson Minority Intro to Technology & Engineering (MITE) 32 Students*

- *June 12 – 17, 2005 Open Session Minority Intro to Technology & Engineering (MITE) 26 students*



- *July 8, 2005 UMSL Bridge Program (UMR campus Visit) 54 Students*

Mathematics Engineering Science Achievement (MESA) 69 students total

The program overall is designed to prepare students for leadership roles in an increasingly technological world. It provides academic enrichment, career exploration in technology, math, and science, and provides opportunities for students to perform as peer leaders and tutors. Several of our original student group graduated from high school this year and are college bound. We also have some excellent rising sophomores and juniors who have achieved a great deal and will benefit significantly from continuation of this program. We also expect our transitioning 8th graders to join the High School program. 39 high school students and 2 advisors, and 30 middle school students and 2 advisors participated this year. The success of this program reemphasized the need to continue programs of this type in urban areas and for students of economic disadvantage.

- *2004/2005 School Year 39 Normandy High School students*
- *2004/2005 Normandy students*

School Year 30 Middle School

