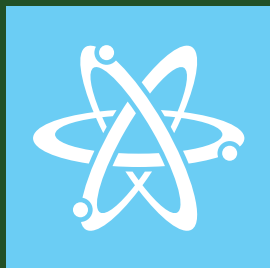
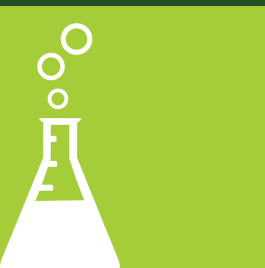


BUILD A SOLID **STEM** FOUNDATION!



science • technology • engineering • mathematics



ALLEGANY
COLLEGE
OF MARYLAND



STEM TALENT IN DEMAND: ACM is here to help!

STEM education includes life and physical **S**ciences, **T**echnology, **E**ngineering, and **M**athematics. *STEM careers are in high demand!*

Experts project at least **8 million** of the jobs available to college graduates in the next five years will be in the **STEM professions**. Despite the clear demand for STEM talent by employers, the U.S. is failing to produce an ample supply of workers to meet the growing demand.

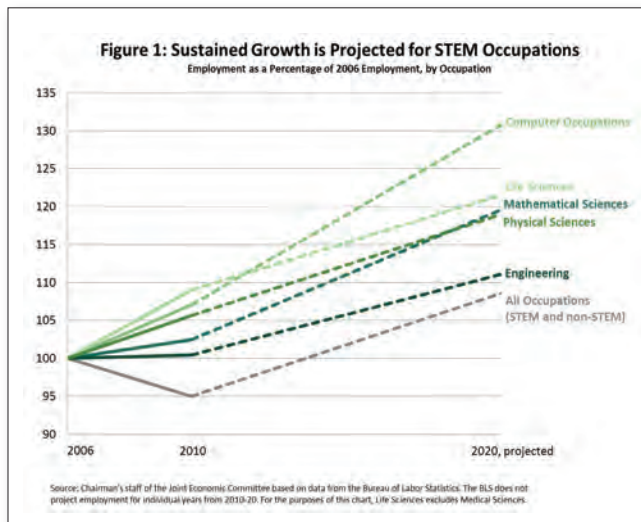
Allegany College of Maryland can help you build a solid STEM foundation!

With our **small class sizes, compassionate and caring instructors**, and **very affordable tuition**, you can improve your chances of finding work in the STEM fields – Science, Technology, Engineering and Math.

Well-qualified advisors in each STEM area are ready to help you design your course of study.

JOB PROSPECTS

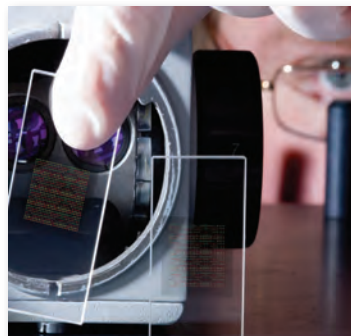
As you can see from Figure 1 below, STEM professions are in demand. Graduates who have backgrounds in Science, Technology, Engineering, and Math are in short supply.



- According to the U.S. Bureau of Statistics, in the next five years, STEM jobs are projected to grow twice as quickly as jobs in other fields.
- The US Department of Labor claims that out of the 20 fastest growing occupations, 15 of them require significant mathematics or science preparation.
- Our top industries need STEM graduates. ACM is in a position to feed both industries and universities with top-rate STEM students.

SAMPLE SCIENCE CAREERS

Agricultural Science
Biochemistry
Biology/ Biotech
Molecular Biology
Biometry
Chemistry
Forest Management
Nanotechnology
Physics
Environmental Science
Forensic Sciences
Geoscientist
Hydrology
Nanotechnology
Physics





SCIENCES

ACM can prepare you to reach your career goals in the Sciences, whether you're most comfortable in a laboratory, at a computer workstation, or in the great outdoors.

Our Biological Sciences, Chemistry, Forest Technology, Tree Care Technician Certificate, Nanotechnology, and Physics/Physical Science programs focus on learning by doing; with hands-on coursework and academic and career training. You'll gain the knowledge and skills you need to transfer to a four-year institution or immediately enter the workforce.

For a tour of ACM's Science Building and to meet with a faculty member in your field of interest contact Prof. John Jastrzembki, LPF. *(Refer to back of this brochure for contact information.)*

"ACM was a great stepping stone for my future. The classes and professors helped me to prepare for my time at Towson University for my Bachelor's degree and NYIT for my Master's degree. The courses were challenging and provided a great foundation for my future. The Science Professors were excellent instructors! Most of my class credits transferred to Towson without a problem too!"

Maggie Resh, Physician Assistant

*Allegany College of Maryland, Associate of Science, 2008; Towson University, Bachelor of Science, Biology, 2010
New York Institute of Technology, Masters of Science, Physician Assistant Studies, 2013*

SAMPLE
TECHNOLOGY
CAREERS

Computer Science
Computer Programmer
Communication Arts
Database Administrators
Information Technology
Software Engineer
Telecommunications
Media
Network Security
WebMaster/ Web Developer
Health Informatics



TECHNOLOGY

Allegany College of Maryland offers many programs focusing on computer applications and technologies. Housed in our Technology Building, ACM's Computer Science and

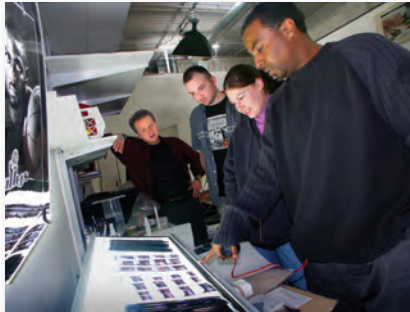
Technology program offers many options for you to explore. Options include: Networking, Programming, Technical Support, Webpage Development, Information Systems, and Application and Micro-Application User Specialists. With a two-year Associate in Applied Science degree in Computer Science and Technology from ACM, graduates enter the workforce or transfer to four-year institutions to earn a Bachelor's degree in information systems or computer programming.

Technologies advising is very complicated and may involve several disciplines. Contact Mr. Jim House, Assistant Professor of Computer Sciences to arrange a visit to the Technologies building and to help you determine the best advisor for your studies and career path. *(Refer to back of this brochure for contact information.)*

"My experience at Allegany College of Maryland was extremely rewarding. The Computer Science curriculum and instruction provided a solid foundation for me and inspired me to continue my education. I highly recommend it to others."

Rita Thomas

Allegany College of Maryland, Associate of Applied Science, Computer Science and Technology - Programming Option, Computer Science and Technology - Network Option, 2003



SAMPLE ENGINEERING CAREERS

Agricultural
Mechanical
Electrical
Civil
Biomedical
Environmental
Industrial
Materials
Mining and Geological



"I started college at ACM and needed a lot of help to get through my math courses. I got the help I needed and was able to go from developmental math to differential equations. I now tutor students at Frostburg State University and I am the top Engineering student. I couldn't have made it without first starting at ACM."

*Steven Cross
Current Allegany College of Maryland Pre-Engineering Student*



ENGINEERING

Do you enjoy mathematical equations? Are you known for being able to fix anything mechanical?

If so, ACM's Engineering program is designed with you in mind.

ACM math faculty will help you to build a solid foundation for your success. Our Engineering degree permits you to “jump into” your area of interest (see left insert). ACM has specialized dual enrollment patterns with four year institutions including Frostburg State University and University of Maryland. By far, ACM is the most affordable route to obtain your advanced engineering degree.

Engineering degrees are among the highest paid undergraduate degrees you can earn. They require significant academic and career advising. Take advantage of our excellent engineering advisors by contacting Prof. Don Robinson.

(Refer to back of this brochure for contact information.)

SAMPLE
MATHEMATICS
CAREERS

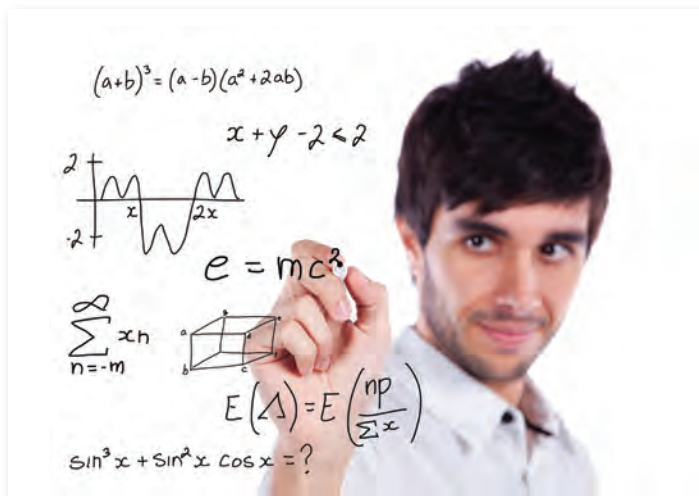
Mathematics
Actuary
Statistics
Systems Analysis
Cartography
Economics
Finances
Operations Research



MATHEMATICS

Mathematics impacts all aspects of our lives, from the price we pay for groceries to the technology used to monitor threats to our homeland security. As a result of the critical role that mathematics plays in our everyday lives, there is a well-documented need for professionals with bachelor and advanced degrees in mathematics and engineering.

With small class sizes and online options, ACM's Mathematics program offers you a variety of transfer course options. You'll begin your program of study with Calculus I. (But if you need a refresher course, classroom and/or online courses in Pre-Calculus I & II are available.) Our Calculus I and II courses are offered both in the classroom and online, while our Calculus III and Differential Equations are only offered online (many four year institution students take ACM's award winning online-math courses).



ACM is a great place to start your education in a mathematical field. Most of these courses are also offered with video assistance. Class sizes are small and personal. Students who transfer are often at the top of their classes at their transfer college. Meet with the Math Division Chair, Dr. Mark Shore, to arrange for personalized advising.

(Refer to back of this brochure for contact information.)

"I have felt like I have a very solid grounding in these subjects [Pre-Calculus and Calculus II] through my time in college, and I have found that I am more competent in Calculus than most of my peers. I believe this is largely due to your classes. You made math fun and I look back on those classes, not with dread, but with excitement for what I learned.

Thank you very much for getting me off to a good start! You helped me learn the value in understanding the concepts that lead to the equations, and not just learning to punch it into my calculator."

*Chris Buckingham
Allegany College of Maryland Transfer Student, 2007*

STEM CONTACTS

Professor John Jastrzembski, LPF

Science Division Chair

301-784-5309

jjastrzembski@allegany.edu

Professor Don Robinson

Engineering and Mathematics

301-784-5237

drobinson@allegany.edu

Assistant Professor Jim House

Computer Science

301-784-5308

jhouse@allegany.edu

Professor Mark Shore

Math Division Chair

301-784-5371

mshore@allegany.edu

CUMBERLAND CAMPUS: 301-784-5005
BEDFORD COUNTY CAMPUS: 814-652-9528
SOMERSET COUNTY CAMPUS: 814-445-9848



Allegany College of Maryland does not discriminate against students or prospective students for reasons of race, sex, color, religion, national or ethnic origin, age, veterans status, conditions of disability, or sexual orientation in admission, educational programs and activities, scholarship and loan programs, or any terms and conditions of enrollment. The College complies with applicable state and federal laws and regulations prohibiting discrimination.

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