S.T.E.M. ACADEMY REQUIREMENTS:

Application-9th Grade Year

ELA (4 credits)

- ELA 9/honors
- ELA 10/honors
- ELA 11/JCC
- Technical Writing/JCC

Social Studies (4 Credits)

- Global 9/honors
- Global 10/honors
- US History /AP
- Gov/Eco or Iroquois Studies

Math (3 credits)

- Integrated Algebra
- Geometry
- Algebra II/Trigonometry

Science (3 credits—minimum 3 course from list)

- Living Environment
- Biology II—Pre-AP
- Earth Science
- Chemistry

REQUIRED ELECTIVES

- Minimum of 4 course in chosen STEM field
- History of Invention
- Data Acquisition and Analysis
- Senior Project and Internship

Hot S.T.E.M. Fields

These are some of the highest paying career fields right out of college and their mid-career salary (salaries are \$80,000 or higher)

- 1. Biomedical Engineering
- 2. Biochemistry
- 3. Computer Science
- 4. Software Engineering
- 5. Environmental Engineering
- 6. Civil Engineering
- 7. Petroleum Engineering
- 8. Applied Mathematics
- 9. Mathematics
- 10. Physics

Gowanda High School



S.T.E.M. Advisory Committee

Dr. Robert B. Anderson, Principal

Ms. Beth Westereheide, Director of Guidance

Ms. Lois Piscitelli, Science Chair

Mr. James Reeves, Math Chair

Mr. Tom Partridge, Technology

Gowanda High School

S.T.E.M. ACADEMY

Learning without thought is labor lost; thought without learning is perilous. Confucius



10674 Prospect Street Gowanda, New York 14070

Tel: 716 532 3325

S.T.E.M. Academy

S.T.E.M. (Science, Technology,
Engineering, and Mathematics) is a
National educational focus. In the 21st
Century global economy, careers in the
S.T.E.M. fields are essential for the
United States to remain economically
competitive. However, our Nation, at
the current time, is not producing
enough qualified candidates in these
fields to meet the increasing
employment demand.

With this National emphasis and an exciting new science facility, Gowanda High School has an unique opportunity to provide curriculum in the S.T.E.M. fields and associated practical experiences to prepare our students for the demands of the 21st century college and career readiness.

WHY AT GHS?

TO APPEAL TO THE INTERESTS
OF TODAY'S STUDENTS AND
TEACH THEM THE NECESSARY
SKILLS TO MEET THE DEMANDS
OF THE 21ST CENTURY
ECONOMY.

PROGRAM ELEMENTS:

- SENIOR PROJECT/
 INTERNSHIP ALLIGNED WITH
 S.T.E.M FIELD OF INTEREST
- JOB SHADOWING
- UNIQUE S.T.E.M. ELEC-TIVES
- FUTURE ADVANCED PLACE-MENT COURSE OPPORTUNI-TIES
- ADVANCED REGENTS
 DIPLOMA WITH STEM

 ENDORSMENT

Benefits of S.T.E.M. Participation

- Advanced Preparation for College and Career—STEM endorsement
- Internship in S.T.E.M. field of study through an Internship
- Opportunity to Earn College Credits
 (Jamestown Community College and/or Advanced Placement)
- Hands-On Experience with a Personal Faculty Advisor for Senior Project
- Specialized S.T.E.M. Electives

When and How to Apply?

- Applications available February 1, 2013
- Applications due February 28, 2013
- HS/STEM showcase March 26, 2013:
 6:00-7:30 pm
- Committee Interview, March 2013
- Recommendation to program, April 2013 and guidance offices.