STEM at Valencia College

There are many opportunities, support and tools available to students in pursuit of a STEM major as part of the Bridges to Baccalaureate Program:

• Career Program Advising
• Scholarship Opportunities
• Tutoring
• STEM Career Skillshop Lecture Series
• Sophomore Research Experience
• Internships
• Educational Planning
• Seminars and Conferences

QUESTIONS?

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Louis Stokes Alliances for Minority Participation (LSAMP)
Central Florida STEM Alliance
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PROMOTING MINORITIES IN STEM

The Bridges to Baccalaureate Program (B2B) was created to encourage minority students to successfully transfer into and graduate with bachelor’s degrees in science, technology, engineering or math.

Lake-Sumter State College, Seminole State College and Valencia College comprise the Central Florida STEM Alliance—a collaboration designed to help students interested in high-wage, high-demand STEM careers.

ABOUT STEM

STEM is a cluster of careers within the fields of science, technology, engineering and mathematics. For the B2B Program, there are a number of qualifying baccalaureate degrees:

Science
- Life Sciences: Biology, Biochemistry, Molecular Biology, Microbiology
- Physical Sciences: Astronomy, Chemistry, Physics, Earth Sciences

Technology
- Computer and Information Technology
- Computer Programming
- Computer Science

Engineering
- Aerospace
- Agriculture
- Biomedical
- Chemical
- Civil
- Electrical
- Environmental
- Industrial

Math
- Actuarial Science
- Mathematics
- Operations Research Analysis
- Statistics

Architecture
- Landscape
- Residential
- Commercial

WHY STEM?

- The world needs more innovators, problem solvers and creative thinkers.
- The STEM fields need diverse perspectives to foster innovation, yet minorities are still underrepresented.
- From Google, Apple and Microsoft to Amazon, Lockheed Martin and NASA, some of America’s biggest organizations are recruiting STEM graduates.
- STEM jobs earn higher salaries than non-STEM jobs.
- Job openings in STEM fields are projected to grow at faster rates than other occupations.

STEM Salaries and Projected Job Growth

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Median Salary</th>
<th>Projected Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>$46,440</td>
<td>14%</td>
</tr>
<tr>
<td>Computer Systems Analyst</td>
<td>$85,320</td>
<td>22%</td>
</tr>
<tr>
<td>Systems Software Developers</td>
<td>$104,480</td>
<td>32%</td>
</tr>
<tr>
<td>Medical Scientists</td>
<td>$90,230</td>
<td>36%</td>
</tr>
<tr>
<td>Biomedical Engineers</td>
<td>$93,960</td>
<td>62%</td>
</tr>
</tbody>
</table>
| All Occupations                   | **Median salary of STEM jobs, as of May 2013.**

* Projected percentage increase in STEM jobs from 2010 – 2020.