### 16 CORE CURRICULUM CREDITS

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>MATH</th>
<th>SCIENCE</th>
<th>SOCIAL STUDIES</th>
<th>OTHER REQUIRED COURSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>3 credits</td>
<td>3 credits</td>
<td>2 credits</td>
</tr>
</tbody>
</table>

### HIGH SCHOOL

<table>
<thead>
<tr>
<th>Year</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
<th>Course 5</th>
<th>Course 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>English 1</td>
<td>Geometry</td>
<td>Biology 1 Honors</td>
<td>Social Studies</td>
<td>HOPE</td>
<td>Biotechnology I</td>
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<tr>
<td>10</td>
<td>English 2</td>
<td>Algebra 2</td>
<td>Chemistry Honors</td>
<td>Social Studies</td>
<td>Fine or Practical Art</td>
<td>Biotechnology II</td>
</tr>
<tr>
<td>11</td>
<td>English 3</td>
<td>Math</td>
<td>Physics or AP Biology</td>
<td>Social Studies</td>
<td>Elective</td>
<td>Biotechnology III</td>
</tr>
<tr>
<td>12</td>
<td>English 4</td>
<td>Math</td>
<td>AP Science</td>
<td>Social Studies</td>
<td>Elective</td>
<td>Biotechnology Elective</td>
</tr>
</tbody>
</table>

Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements - see the Coordinating Committee's Dual Enrollment Equivalency List and the Bright Futures Comprehensive Course Table.

### POSTSECONDARY

- **TECHNICAL CENTER PROGRAM(S)**
  - Biomedical Equipment Maintenance and Repair Technology (workforce certificate); Bioinformatics (Advanced Certificate)

- **COMMUNITY COLLEGE PROGRAM(S)**
  - Biomedical Engineering Technology; Biotechnology Laboratory Technology; Chemical Laboratory Specialist;

- **UNIVERSITY PROGRAM(S)**
  - Biomedical Science; Nanobiological engineering; Biomedical Engineering

### CAREER

- Biomedical Equipment Maintenance and Repair Technician; Bioinformatics technician
- Biological Illustration; biomedical technician; laboratory assistant
- Molecular Biologist; Analytical Engineer; Ecologist; Genetic Cell Scientist; Phthalate Analyst

### ARTICULATION AND CTE DUAL ENROLLMENT OPPORTUNITIES

- Secondary to Technical Center (PSAV)
  - Florida State College at Jacksonville
- Secondary to College Credit Certificate or Degree
  - FSC at Jax.: Bio I, II, III at PVHS transfers as 4 crdts. Intro to Biotech Methods, Intro to Biotech, Princ. of Biology, and Human Biology
- PSAV/PSV to AAS or B AAS or B

*Possible Industry Certifications (Students):*

**Secondary:**
- Biomedical Equipment Maintenance and Repair Technician; Bioinformatics technician
- Biological Illustration; biomedical technician; laboratory assistant
- Molecular Biologist; Analytical Engineer; Ecologist; Genetic Cell Scientist; Phthalate Analyst

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**Note:**
- The Targeted Occupations List may be used to identify appropriate careers.
- Florida State College at Jacksonville offers a variety of programs that align with the Biotechnology pathway, including courses in Biomedical Science, Nanobiological engineering, and Biomedical Engineering. Students interested in these programs should consult with their academic advisor for specific course recommendations and dual enrollment opportunities.
Postsecondary: Biomedical Equipment Maintenance and Repair Technology (workforce certificate); Bioinformatics (Advanced Certificate)
Molecular Biologist; Analytical Chemist; Biomedical Engineer; Ecologist; Geologist; Microbiology and Cell Scientist; Plant Pathologist

UNIVERSITY PROGRAM(S)
Biomedical Science; Nanotechnology; Agricultural & biological engineering; Chemical technology; Biomedical Engineering Technology; Biology;

Dual enrollment courses may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements - see the Articulation Coordinating Committee’s Dual Enrollment Equivalency List and the Bright Futures Comprehensive Course Table.

RECOMMENDED ELECTIVES

ARTICULATION AND CTE DUAL ENROLLMENT OPPORTUNITIES
University of Florida; University of Central Florida

PSAV/PSV to AAS or AS to BS or BAS

SAMPLE CAREER SPECIALTIES
(The Targeted Occupations List may be used to identify appropriate careers.)
Career Cluster of interest identified by students enrolled in required middle school career education course that includes interest assessment and career exploration through CHOICES and ePersonal Education Planner through FACTS.org.

8 ADDITIONAL CREDITS
Secondary career and technical education programs may lead to industry recognized certificates, occupational opportunities or postsecondary education options. Based on the Career Cluster of interest and identified career and technical education program, the following postsecondary options are available.