Career and Technical Education
Programs of Study (CTE-POS)

Brevard Public Schools
BPS Demographics

- Florida’s Space Coast
- 70 miles long, 30 miles wide
- 16 comprehensive high schools
- 72,000 students, K – 12
BCC Demographics

- Five campuses
- Degrees: AA, AS, AAS, ATD, CCC, and PSAV
- Over 25,000 students
- A 2+2 articulation to a State University Baccalaureate.
Brevard Public Schools
Programs of Study

- Tools to plan rigorous and relevant high school courses
- Multi-year sequence of courses
- Industry-recognized credentials
- Postsecondary opportunities
Brevard’s Initiatives

- Secondary Schools of National Prominence
  - Rigorous Course Requirements
- Brevard Public Schools Strategic Plan
- Carl D. Perkins Vocational and Technical Education Improvement Act of 2006
Articulated Acceleration Mechanisms

- Dual Enrollment (dual credit, early college)
  - Types – AA, AS, PSAV
  - Locations – BCC, HS, Virtual College
- AP, IB, AICE
- Advance Standing Credit
- Credit in Escrow
Process: Who Was Involved?

- Industry and Business
- Higher Education
- CTE Teachers
- Academic & CTE Resource Teachers
- Selected Guidance Counselors
- Secondary Curriculum Contacts
- Secondary Directors
Process: What Occurred?

- Over 40 Meetings
- August 2007- November 2007
- Decisions Concerning Fourth Year Academic Classes
- Electives
## Brevard Public Schools Career & Technical Education (CTE) Program of Study

**Career Cluster:** Architecture and Construction  
**Major area of Interest:** Industrial - Architectural Drafting  
**Career Cluster Pathway:** Design/Pre-Construction  
**CTE Program:** Drafting

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
<th>16 REQUIRED CORE CREDITS</th>
<th>10 ADDITIONAL CREDITS</th>
</tr>
</thead>
</table>
| 9 | English Honors 1  
Geometry Honors  
Biology 1 Honors or Integrated Science 1 Honors  
World History Honors  
Career Research & Decision Making (.5 cd) | Drafting 1  
Elective (Foreign Language) |
| 10 | English Honors 2  
Algebra 2 Honors  
Chemistry 1 Honors or Integrated Science 2 Honors  
American History Honors | HOPE  
Drafting 2  
Elective (Foreign Language) |
| 11 | AP English Language & Comp or English Honors 3  
Pre Calc or Advanced Math Topics  
Physics 1 Honors or Integrated Science 3 Honors  
American Government Honors/ Economics Honors | Fine Arts (Art/3D Comprehensive)  
Drafting 3  
Elective (Computing for College & Careers) |
| 12 | AP English Lit & Comp or DE English Comm 1 ENC1101/ DE Technical Writing ENC2210  
AP Calculus, AP Statistics or DE College Algebra MAC 1105/ DE Statistics STA 2023  
AP Science, Dual Enrollment Science, or Integrated Science 4 Honors | AP Psychology or DE Sociology SYG 2000/ DE Psychology PSY 2012 or Sociology/ Psychology 1  
Fine Arts (Speech or DE Speech SPC 2600/ DE Art History ARH 1051)  
DE Civil Drafting ETDC 1540/ Advanced AutoCAD ETDC 2351  
Elective (Internship) |

Approved Dual Enrollment (DE) courses for qualified students may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.

**POSTSECONDARY**

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 CTE program, the following postsecondary options are available. The official college or university catalog must be used to determine course requirements in the major.

**BREVARD COMMUNITY COLLEGE**

- AutoCAD Foundation CCC  
- Drafting CCC  
- Interior Design Technology AS  
- Architectural Design and Construction Technology

**UNIVERSITY PROGRAM(S)**

- Bachelor's Degree (four-year)
  - Civil Engineering BS
  - Mechanical Engineering BS
  - Landscape Architecture BS
  - Architecture BS
  - Building Construction (Management) BS

**SAMPLE CAREER SPECIALTIES**

- Architectural Drafter  
- Architectural detailer  
- Civil Engineer, Mechanical Engineer, Landscape Architect, Architect, Construction Manager

*Denotes certificates or degrees that may be available at other colleges but not at BCC.

*Industry Certifications (Students):

**Secondary:**

**Postsecondary:**

**Information regarding high school to college and career transition can be accessed from FACTS.org**

*Associate in Arts (AA) degrees are offered at all Florida Community Colleges and allow students to move on to complete a four-year degree.
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<tbody>
<tr>
<td><strong>ENGLISH</strong></td>
<td>English Honors 1</td>
<td>Geometry Honors</td>
<td>Pre Calc or Advanced Math Topics</td>
<td>AP English Lit &amp; Comp or DE English Comm 1 ENC 1101/DE Technical Writing ENC 2210</td>
</tr>
<tr>
<td><strong>MATH</strong></td>
<td>Geometry Honors</td>
<td>Algebra 2 Honors</td>
<td>Physics 1 Honors or Integrated Science 3 Honors</td>
<td>BCC: Dual Enrollment ENC 1101 (English Communications 1) (1 H5 credit or 3 college credits) and ENC 2210 Technical Writing is a suggested option for qualified students who are seeking an AS, AA, or BS/BA degree.</td>
</tr>
<tr>
<td><strong>SCIENCE</strong></td>
<td>Biology 1 Honors or Integrated Science 1 Honors</td>
<td>Chemistry 1 Honors or Integrated Science 2 Honors</td>
<td>American Government Honors/Economics Honors</td>
<td>AP Psychology or DE Sociology SYG 2000 / DE Psychology PSY 2012 or Sociology/ Psychology 1</td>
</tr>
<tr>
<td><strong>SOCIAL STUDIES</strong></td>
<td>World History Honors</td>
<td>American History Honors</td>
<td>Elective (Art/3D Comprehensive)</td>
<td>Elective (Speech or DE Speech SPC 2608/DE Art History ARH 1051)</td>
</tr>
<tr>
<td><strong>ADDITIONAL CREDITS</strong></td>
<td>Career Research &amp; Decision Making (.5cct) Elective (Ethics .5cct)</td>
<td>HOPE</td>
<td>*Drafting 3</td>
<td>Elective (DE Civil Drafting ETDC 1540 / DE Advanced AutoCAD ETDC 2351)</td>
</tr>
</tbody>
</table>

Approved Dual Enrollment (DE) courses for qualified students may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.
### 16 REQUIRED CORE CREDITS

<table>
<thead>
<tr>
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<th>MATH</th>
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<th>SOCIAL STUDIES</th>
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<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>4 credits, 2 w/ lab</td>
<td>4 credits</td>
</tr>
</tbody>
</table>

### 10 ADDITIONAL CREDITS

- 1/2 credit Career Research & Decision Making
- 1 HOPE (Health Opportunities through Physical Education)
- 1 Fine Arts
- 7.5 Electives, including CTE sequential Program of Study and recommended electives

#### HIGH SCHOOL

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course 1</th>
<th>Course 2</th>
<th>Course 3</th>
<th>Course 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>English Honors 1</td>
<td>Algebra 1</td>
<td>Biology 1 Honors or Integrated Science 1 Honors</td>
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<tr>
<td>10</td>
<td>English Honors 2</td>
<td>Geometry</td>
<td>Chemistry 1 Honors or Integrated Science 2 Honors</td>
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<td>11</td>
<td>AP English Lang &amp; Comp or English Honors 3</td>
<td>Algebra 2</td>
<td>Physics 1 Honors or Integrated Science 3 Honors</td>
<td>American Government Honors/ Economics Honors</td>
</tr>
<tr>
<td>12</td>
<td>AP English Lit &amp; Comp or English Honors 4</td>
<td>Advanced Math Topics, PreCalc, or AP Statistics</td>
<td>AP Science or Integrated Science 4 Honors</td>
<td>AP Psychology or Sociology / Psychology 1</td>
</tr>
</tbody>
</table>

#### POSTSECONDARY

- 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 CTE program, the following postsecondary options are available. The official college or university catalog must be used to determine course requirements in the major.

#### CTE Program: Drafting

- Approved Dual Enrollment (DE) courses for qualified students may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.

### UNIVERSITY PROGRAM(S)

- Bachelors Degree (four-year)
  - *Civil Engineering BS*
  - *Mechanical Engineering BS*
  - *Architecture BS*
  - *Building Construction (Management) BS*

### SAMPLE CAREER SPECIALTIES

- **Secondary:**
  - Architectural Drafter
  - Drafting Assistant
  - Architectural detailer

- **Postsecondary:**
  - Civil Engineer, Mechanical Engineer, Landscape Architect, Architect, Construction Manager

*Industry Certifications (Students):*

- Secondary:
- Postsecondary:
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- Biology 1 Honors or Integrated Science 1 Honors
- World History Honors
- Career Research & Decision Making (.5 cdt)/Elective Ethics (.5 cdt)

- Drafting 1
- Elective (Foreign Language)
- HOPE Drafting 2
- Elective (Foreign Language)
- AP English Lang & Comp or English Honors 4
- Advanced Math Topics, PreCalc, or AP Statistics
- AP Science Honors

- Drafting 1
- Drafting 2
- Drafting 3

- 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 CTE program, the following postsecondary options are available. The official college or university catalog must be used to determine course requirements in the major.

- Brevard Community College
  - AutoCAD Foundations CCC
  - Drafting CCC
  - Architectural Design and Construction Technology
  - Interior Design Technology AS

- Postsecondary
  - Architecture BS
  - Building Construction (Management) BS
  - Drafting and Design Technology AS
  - Architectural Design and Construction Technology
  - Architectural Design and Construction Technology
  - Architectural Design and Construction Technology
  - Architectural Design and Construction Technology

- Approved Dual Enrollment (DE) courses for qualified students may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.

- Industry Certifications (Students):
  - Secondary:
    - Architectural Drafter
    - Drafting Assistant
  - Postsecondary:
    - Architectural Drafter ETDC 1540/DE Advanced AutoCAD ETDC 2351
    - Drafting Assistant ETDC 1540/DE Advanced AutoCAD ETDC 2351

- BCC: Tech Prep/Advance Standing Credit agreement course. Completion of Drafting or Drafting/Illustrative Design Tech 1, 2 & 3 w/ "B" or higher can lead to BCC credit in ETDC 2320 AutoCAD Fundamentals, ETDC 2355 AutoCAD 3D & TARC 1120 Architectural Drafting.

- Information regarding high school to college and career transition can be accessed from FACTS.org

- *Denotes certificates or degrees that may be available.
### Brevard Public Schools Career & Technical Education (CTE) Program of Study

**Career Cluster:** Architecture and Construction  
**Major area of Interest:** Industrial - Architectural Drafting

**Career Cluster Pathway:** Design/Pre-Construction  
**CTE Program:** Drafting

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- 1/2 credit Career Research & Decision Making
- 1 HOPE (Health Opportunities through Physical Education)
- 1 Fine Arts
- 7.5 Electives, Including CTE sequential Program of Study and recommended electives

- **HIGH SCHOOL**
  - **9**
    - English 1  
    - Applied Math 1  
    - Biology 1 or Intergrated Science1  
    - World History  
    - Career Research & Decision Making (.5cdt)/Elective Ethics (.5cdt)  
    - Drafting 1
  - **10**
    - English 2  
    - Applied Math 2  
    - Chemistry 1 or Intergrated Science 2  
    - American History  
    - HOPE  
    - Drafting 2
  - **11**
    - English 3  
    - Informal Geometry or Geometry 1  
    - Physics 1 or Intergrated Science 3  
    - American Government/ Economics  
    - Elective (Computing for College & Careers)  
    - Drafting 3
  - **12**
    - English 4  
    - Algebra 2  
    - Integrated Science 4  
    - Sociology / Psychology 1  
    - Fine Art (Art3D/Comprehensive 1)  
    - Drafting 4

#### Approved Dual Enrollment (DE) courses for qualified students may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.

#### POSTSECONDARY

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 CTE program, the following postsecondary options are available. The official college or university catalog must be used to determine course requirements in the major.

- **BREVARD COMMUNITY COLLEGE**
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  - *Mechanical Engineering BS
  - *Architectural Design and Construction Technology
  - Associate in Arts (AA) degrees are offered at all Florida Community Colleges and allow students to move on to complete a four-year degree.
  - *Building Construction (Management) BS

- **UNIVERSITY PROGRAM(S)**
  - Bachelors Degree (four-year)
  - *Denotes certificates or degrees that may be available at other colleges but not at BCC.

**SAMPLE CAREER SPECIALTIES**

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<thead>
<tr>
<th>Career</th>
<th>Secondary</th>
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| Architectural Drafter | Architectural detailer | Civil Engineer, Mechanical Engineer, Landscape Architect, Architect, Construction Manager
| Drafting Assistant | | |

*Industry Certifications (Students):*

Secondary:  
Postsecondary:
Career & Technical Education

Programs of Study

Introduction to POS

The files below open in Microsoft Excel. If you do not have Excel, download the Excel Viewer here.

Click on the tab at the bottom of each program of study excel spreadsheet to select different options.
(Enlarge spreadsheet to full size to see tabs)

CTE Programs of Study

- Accounting Operations
- Air Conditioning, Refrigeration and Heating
- Auto Collision, Repair and Refinishing
- Automotive Service Technology
- Business Supervision and Management
- Communications Technology

http://ctebrevard.com
Drafting and Design Technology Program

World of Work in the Field of Drafting and Design Technology

Drafters prepare technical drawings and plans used by production and construction workers to build everything from manufactured products such as toys, industrial machinery and spacecraft to structures such as houses, office buildings, and gas pipelines. Drafters' drawings provide visual guidelines, show the technical details of the products and structures, and specify dimensions, materials, and procedures.

Typical tasks may include preparing plans and detailed drawings from rough or detailed sketches and notes for engineering or manufacturing purposes and using computer-assisted drafting (CADD) equipment and software.

Nearly all engineering, design, and manufacturing firms are potential employers. More than one-third of all drafters work in engineering and architectural services, one-third in manufacturing, and the remainder work in construction and utilities.

Earn a Degree and/or a College Credit Certificate!

- Associate in Science Degree in Drafting and Design Technology (62 credits)

JUMPSTART your career options with a Certificate (15 to 24 credits)
- AutoCAD Foundations CCC
- Drafting CCC

Students who succeed in this field...
...are detail oriented
...have good visual aptitude
...have good communication and interpersonal skills

Career Options: Drafting and Design Technician, CADD Operator/Specialist, Drafting Designer, CADD Drafting Technician/Specialist, Mechanical Engineering Assistant, Mechanical Drafter, Tooling Drafter, Civil Drafter®, Electrical Drafter, and Architectural Drafter®

Estimated Salary Range:
$27,000 to $52,000 per year

*Indicates Occupations on Brevard County’s Regional Targeted Occupations List (TOL)

Getting Started...
Apply to Brevard Community College at www.brevardcc.edu.
If you are already enrolled in BCC but wish to change your major to this program, be sure to complete a "Major Change" form. Forms are available in the Admissions office.
No special application to the program is required. Most Drafting and Design courses are offered on the BCC Melbourne or Cocoa Campus.
Visit a BCC Student Advisor for additional program information.

Contact Information:
Chris Broomfield – 321.433.5671 or e-mail broomfieldc@brevardcc.edu

For more information about the nature of work and the national job outlook for Drafting and Design, go to the US Department of Labor’s Occupational Outlook Handbook: http://www.bls.gov/oco/.

Career information in the area of Architecture & Construction can be found at http://www.careerclusters.org.
<table>
<thead>
<tr>
<th>Semester 1</th>
<th>ETDC 2320 AutoCAD Fundamentals (TP/ASC Option)</th>
<th>ETDC 1540 Civil Drafting</th>
<th>CGS 2100 Microcomputer Applications</th>
<th>MAT 1033 or higher (requires minimum placement test score or successful completion of appropriate preparatory courses)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>4 credit hours</td>
<td>4 credit hours</td>
<td>3 credit hours</td>
<td>3 credit hours</td>
</tr>
<tr>
<td>Semester 2</td>
<td>ETDC 2355 AutoCAD 3D (TP/ASC Option)</td>
<td>ETDC 2340 Advanced AutoCAD</td>
<td>TARC 1120 Architectural Drafting (TP/ASC Option)</td>
<td>ENC 1101 Communications 1 (requires minimum placement test score or successful completion of appropriate preparatory courses)</td>
</tr>
<tr>
<td>Spring</td>
<td>4 credit hours</td>
<td>4 credit hours</td>
<td>4 credit hours</td>
<td>3 credit hours</td>
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<tr>
<td>Semester 3</td>
<td>Humanities (requires minimum placement test score or successful completion of appropriate preparatory courses)</td>
<td>SPC 2608 Speech (formerly SPC 2600)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>3 credit hours</td>
<td>3 credit hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester 4</td>
<td>ETDC 2357 Parametric Modeling</td>
<td>ETDC 2545 Advanced Civil Drafting</td>
<td>TARC 2122 Advanced Architectural Drafting</td>
<td>Support Course Elective (see below)</td>
</tr>
<tr>
<td>Fall</td>
<td>4 credit hours</td>
<td>4 credit hours</td>
<td>4 credit hours</td>
<td>3 credit hours</td>
</tr>
<tr>
<td>Semester 5</td>
<td>Technical Elective (listed below)</td>
<td>Technical Elective (listed below)</td>
<td>Technical Elective (listed below)</td>
<td>Social/Behavioral Science (requires minimum placement test score or successful completion of appropriate preparatory courses)</td>
</tr>
<tr>
<td>Spring</td>
<td>3 or 4 credit hours</td>
<td>3 or 4 credit hours</td>
<td>3 or 4 credit hours</td>
<td>3 credit hours</td>
</tr>
</tbody>
</table>

Degree and Certificate Requirements: It is the responsibility of the student to meet the established degree requirements for the degree or certificate being sought at Brevard Community College. Specific requirements (minimum grades, prerequisites, etc.) are indicated in the 2009-2010 College Catalog.

Courses shown in shaded boxes indicate courses that apply toward a College Credit Certificate.

Not all courses are offered every semester. Students are encouraged to consult an advisor and/or the program contact for planning.

Program Advising Notes: Most courses are offered on the Melbourne campus.

Tech Prep/Advance Standing Credit [TP/ASC Option] may apply. Graduates of Brevard Public Schools' Career & Technical programs in Drafting or Drafting/Illustrative Design Technology may be eligible to receive specific technical college credit at no cost. For information and requirements, visit www.brevardcc.edu/careertech.
### Support Course Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 1102</td>
<td>Communications 2 (3 credit hours)</td>
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<tr>
<td>OST 2335</td>
<td>Business Communications (3 credit hours)</td>
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<tr>
<td>ENC 2210</td>
<td>Technical Writing (3 credit hours)</td>
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<tr>
<td>SLS 1101</td>
<td>Success Strategies for College and Life (3 credit hours)</td>
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### Technical Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ETDC 1801</td>
<td>Pictorial Drafting (4 credit hours)</td>
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</tr>
<tr>
<td>COP 1000</td>
<td>Principles of Programming (3 credit hours)</td>
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<tr>
<td>INC 2910</td>
<td>Kitchen and Bath Design 1 (3 credit hours)</td>
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<tr>
<td>GRAC 2156</td>
<td>Vector Graphics (3 credit hours)</td>
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<tr>
<td>ETDC 2322</td>
<td>Pro-E Fundamentals (4 credit hours)</td>
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<tr>
<td>EET 1084</td>
<td>Introduction to Electronics (3 credit hours)</td>
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<tr>
<td>ETD 2941</td>
<td>Internship (3 credit hours)</td>
<td></td>
</tr>
<tr>
<td>CGS 1871</td>
<td>Multimedia Presentations (3 credit hours)</td>
<td></td>
</tr>
</tbody>
</table>

**Jumpstart** your career by earning a **College Credit Certificate** (CCC) in the Drafting and Design Technology program!

- Earn a certificate in as few as two semesters
- Use certificate courses to build toward completing the A.S. degree in Drafting and Design Technology
- CPT testing is not required for the following CCCs
- No General Education courses are needed for the CCCs

### AutoCAD Foundations (AFCC) CCC (15 credit hours)

#### Foundation Courses

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>ETDC 2320</td>
<td>AutoCAD Fundamentals (TP/ASC Option) (4 credit hours)</td>
</tr>
<tr>
<td>ETDC 1540</td>
<td>Civil Drafting (4 credit hours)</td>
</tr>
<tr>
<td>OR</td>
<td>CGS 2100</td>
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<tr>
<td></td>
<td>Microcomputer Applications (3 credit hours)</td>
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</tbody>
</table>

#### Advanced Courses

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ETDC 2355</td>
<td>AutoCAD 3D (TP/ASC Option) (4 credit hours)</td>
</tr>
<tr>
<td>ETDC 2340</td>
<td>Advanced AutoCAD (4 credit hours)</td>
</tr>
</tbody>
</table>

### Drafting (DACC) CCC (24 credit hours)

#### Foundation Courses

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<td>ETDC 1540</td>
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#### Intermediate Courses

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<tr>
<td>ETDC 2355</td>
<td>AutoCAD 3D (TP/ASC Option) (4 credit hours)</td>
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<tr>
<td>TARC 1120</td>
<td>Architectural Drafting (TP/ASC Option) (4 credit hours)</td>
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#### Advanced Courses

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<tr>
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<td>Advanced AutoCAD (4 credit hours)</td>
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<tr>
<td>TARC 2122</td>
<td>Advanced Architectural Drafting (4 credit hours)</td>
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</table>
Professional Development Provided

- Guidance Counselors
- Curriculum Contact Meetings
- CTE Middle School Teachers
- BCC Advisors
Individualized Program of Study

- Individualized and flexible
- Addresses student interests and strengths
- First developed by student, parent, and school counselor by the end of October of 7th grade year
- Reviewed and revised annually
Individualized Program of Study Timeline

<table>
<thead>
<tr>
<th>Grade</th>
<th>Meeting Time Frame</th>
<th>Outcome</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>June - October</td>
<td>IPS/Relationships</td>
</tr>
<tr>
<td>8</td>
<td>November - April</td>
<td>IPS/Relationships</td>
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<tr>
<td>9</td>
<td>May - December</td>
<td>IPS Review</td>
</tr>
<tr>
<td>10</td>
<td>January – April</td>
<td>Plan Results</td>
</tr>
<tr>
<td>11</td>
<td>March – June</td>
<td>ACT/Spring</td>
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<td>12</td>
<td>May – December</td>
<td>College Bound/ Community College/CTE</td>
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Individualized Program of Study and the CTE-POS

- Tool for counselors
- Cohesive sequence of relevant courses
- Do not use CTE-POS to track students
- Templates to guide student course selection
- Meet requirements for graduation AND prepare for university, college or career
POS - A Work in Progress

- Revise annually
- New programs
- Update
- Industry certification changes

Brevard’s goal: *Every student will graduate from high school prepared to enter and be successful in the workplace, in further career education, and/or in postsecondary degree opportunities.*
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