

### Program Strand: Drafting / Illustrative Design Technology

Students who choose a career in Drafting/Illustrative Design Technology produce technical drawings and plans that are used in construction, architecture, and engineering. Their drawings show details and dimensions, explain procedures, and list materials.

#### Secondary Career Academy Development Timetable Academy classes are listed in bold type.

Pre-Academy Grades 6 – 8	Grade 9	Grade 10	Grade 11	Grade 12
6 <sup>th</sup> grade—Middle Moves 7 <sup>th</sup> grade—Career Preparation Requirement 8 <sup>th</sup> grade—Transition Tools  MJ Wheel 8600020015 Introduction to Technology 860001001 Exploring Technology 860002012 Exploration of Communications Technology 860003001 Exploration of Production Technology 860005001	English I	English II	English III	English IV
	Algebra or higher	Geometry or higher	Algebra II or higher	Pre-calculus or Other Mathematics Course
	Earth & Space Science or Biology	Biology or Chemistry	Chemistry or Physics or Physical Science	Science Elective or Other Elective
	World History	Elective	American History	American Government / Economics
	9 <sup>th</sup> Grade Transition	Foreign Language or Other Elective	Foreign Language or Other Elective	Foreign Language or Other Elective
	<b>Drafting/Illustrative Design Technology 1 860081001</b>	<b>Drafting/Illustrative Design Technology 2 860082001</b>	<b>Drafting/Illustrative Design Technology 3 860083001 (Honors)</b>	<b>Advanced Technology Applications 860190001 (Honors)</b>
	Elective	Elective	Elective	Elective
	Elective	Elective	Elective	Elective

#### Suggested Electives:

- Students may in their Junior or Senior year opt to participate in the Career Experience Opportunity (CEO) internship program using the following course numbers: Workplace Essentials – 83003101A (Honors .5) and CEO internship – 0500330CE (Honors .5).
- Students may complete more than one program within the Academy of Drafting Technology providing courses are offered at the school site.
- In addition, students can choose to enroll in Materials and Processes Technology, Construction Technology and Art Appreciation classes to enhance their marketability.

To find a Miami-Dade County Public High School with this Program Strand, please link to [http://ssr.dadeschools.net/acad\\_tally\\_schls.pdf](http://ssr.dadeschools.net/acad_tally_schls.pdf)

Internship Opportunities	Student Organizations / Clubs	Earn Upon Completion
<ul style="list-style-type: none"> <li>• Internship</li> <li>• Cooperative Education</li> <li>• Job Shadowing</li> <li>• School-Based Enterprise</li> <li>• Service Learning</li> <li>• Dual Enrollment</li> <li>• <a href="#">Portal to CEO</a></li> </ul>	<ul style="list-style-type: none"> <li>• Technology Student Association (TSA)</li> <li>• SECME</li> <li>• U.S. FIRST Robotics League</li> </ul>	<ul style="list-style-type: none"> <li>• Industry Title &amp; FLDOE OCP's correlated to the individual areas.</li> <li>• For more information on the Florida Department of Education Bright Futures Scholarship Programs: Florida Academic Scholars Award (FAS), Florida Medallion Scholars Award (FMS), and Florida Gold Seal Vocational Scholars Award (GSV) please contact a guidance counselor or visit: <a href="http://www.floridastudentfinancialaid.org/ssfad/factsheets/BF.htm">http://www.floridastudentfinancialaid.org/ssfad/factsheets/BF.htm</a>.</li> <li>• For more information on advanced standing at local public and private post secondary institutions as established per articulation agreements please contact a guidance counselor.</li> </ul>

#### POSTSECONDARY OPTIONS

Certification Programs	Community College (A.A./A.S.) or Proprietary Programs	Four-Year College and University Programs
<ul style="list-style-type: none"> <li>• Drafting</li> <li>• AutoCAD</li> <li>• <a href="#">Robert Morgan Educational Center</a></li> <li>• <a href="#">Miami Lakes Educational Center</a></li> </ul>	<ul style="list-style-type: none"> <li>• Associate Of Applied Science In Construction Technology</li> <li>• Drafting Technology</li> <li>• Computer Drafting A.S.</li> <li>• Residential Drafting A.S.</li> <li>• <a href="#">Miami Lakes Educational Center</a></li> <li>• <a href="#">Miami Dade College</a></li> <li>• <a href="#">Robert Morgan Educational Center</a></li> </ul>	<ul style="list-style-type: none"> <li>• Architecture</li> <li>• Civil Engineering</li> <li>• Construction Technology</li> <li>• Drafting and Design Technology</li> <li>• Mechanical Engineering</li> <li>• Surveying</li> <li>• Design Engineering</li> <li>• <a href="#">FIU Department of Construction Management</a></li> <li>• <a href="#">Univ. of North Florida Building Construction Management Dept.</a></li> <li>• <a href="#">Univ. of Florida College of Design, Construction and Planning</a></li> </ul>

#### CAREER OPTIONS

Entry Level	After Post-Secondary Education
<ul style="list-style-type: none"> <li>• Assistant Drafter</li> <li>• Junior Drafter</li> <li>• Engineer Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Architect</li> <li>• Civil Engineer</li> <li>• Senior Drafter</li> <li>• Technical Illustrator</li> <li>• CNC Tool Designer</li> <li>• TV or Movie Set Designer</li> <li>• Industrial Designer</li> <li>• Engineering Technician</li> <li>• Surveyor</li> <li>• Mechanical Engineer</li> </ul>