

## ENGINEERING MAGNET

Courses marked with a **DE** = Dual Enrollment (for college credit)

Courses marked with **AP** = Advanced Placement (may yield a college credit)

COURSE NAME	COURSE SEQUENCE	COURSE CREDIT	PRE-REQUISITE/ RECOMMENDATION
<b>ENGINEERING STRAND</b>			
PHYSICS	<b>M01</b>	1.0 Science	9 <sup>th</sup> grade
COMPUTER SCIENCE DISCOVERIES	<b>M65</b>	1.0 Mathematics	9 <sup>th</sup> grade
TECHNICAL DESIGN 1	<b>M31</b>	1.0 Career Tech	10 <sup>th</sup> grade
COMPUTER SCIENCE PRINCIPLES - AP	<b>M61</b>	1.0 Mathematics	10 <sup>th</sup> grade
APPLIED ENGINEERING TECHNOLOGY 1	<b>M11</b>	1.0 Career Tech	11 <sup>th</sup> grade REQUIRED
LEADERSHIP SKILLS DEVELOPMENT	<b>M10</b>	1.0 Elective	11 <sup>TH</sup> or 12 <sup>TH</sup> Gr & Teacher Recommendation
COMPUTER SCIENCE FOR EVERYONE/ JAVA PROGRAMMING <b>DE</b> ENGINEERING DRAWING/INTRO TO CAD MECH <b>DE</b>	<b>M45</b> <b>M47</b>	0.5/0.5 Elective 0.5/0.5 Voc/Elec	12 <sup>th</sup> Grade (Min 3.0 unweighted GPA)
<b>11<sup>th</sup> grade choose at least ONE (max 3) from the list below:</b>			
EXPERIMENTAL SCIENCE (Honors)	<b>M03</b>	1.0 Elective	11 <sup>th</sup> grade
AP Computer Science A	<b>M62</b>	1.0 Career Tech	11 <sup>th</sup> gr & Computer Science Principles AP
<b>12<sup>th</sup> grade NOT attending FIU DE, select at least 1 course from below:</b>			
TECHNICAL DESIGN 3	<b>M33</b>	1.0 Career Tech	12 <sup>th</sup> grade (not attending FIU DE)
APPLIED ENGINEERING TECHNOLOGY 2	<b>M12</b>	1.0 Career Tech	12 <sup>th</sup> grade (not attending FIU DE)
ADVANCED TECHNOLOGY APPLICATIONS	<b>M14</b>	1.0 Career Tech	12 <sup>th</sup> grade
TECHNOLOGY STUDIES 1	<b>M63</b>	1.0 Career Tech	12 <sup>th</sup> grade
EXECUTIVE INTERNSHIP 3 (local Honors)	<b>Q01</b>	1.0 Elective	12 <sup>th</sup> grade (3.0 GPA & transportation required)
<b>ARCHITECTURE STRAND</b>			
DIGITAL DESIGN 1	<b>T51</b>	1.0 Career Tech	9 <sup>th</sup> grade
TECHNICAL DESIGN 1	<b>M31</b>	1.0 Career Tech	9 <sup>th</sup> grade
TECHNICAL DESIGN 2	<b>M32</b>	1.0 Career Tech	10 <sup>th</sup> grade
TWO-DIMENSIONAL STUDIO ART 2	\$ <b>F02</b>	1.0 Fine Art	10 <sup>th</sup> grade
2-D DESIGN/BEGINNING DRAWING <b>DE</b>	\$ <b>F09</b>	0.5/0.5 Fine Art	10 <sup>th</sup> grade (3.0 unweighted GPA)
TECHNICAL DESIGN 3	<b>M33</b>	1.0 Career Tech	11 <sup>th</sup> grade
BUILDING TRADES & CONSTRUCTION DESIGN TECH 1	<b>M21</b>	1.0 Career Tech	11 <sup>th</sup> grade
APPLIED ENGINEERING TECHNOLOGY 1	<b>M11</b>	1.0 Career Tech	12 <sup>TH</sup> grade - <b>required</b>
ADVANCED TECHNOLOGY APPLICATIONS	<b>M34</b>	1.0 Career Tech	12 <sup>th</sup> grade
EXECUTIVE INTERNSHIP 3 (local Honors)	<b>Q01</b>	1.0 Elective	12 <sup>th</sup> grade (3.0 GPA & transportation required)
LEADERSHIP SKILLS DEVELOPMENT	<b>M10</b>	1.0 Elective	11 <sup>TH</sup> or 12 <sup>TH</sup> Gr & Teacher Recommendation

<b>COURSE NAME</b>	<b>COURSE SEQUENCE</b>	<b>COURSE CREDIT</b>	<b>PRE-REQUISITE/ RECOMMENDATION</b>
<b>CONSTRUCTION STRAND</b>			
BUILDING TRADES & CONSTRUCTION DESIGN TECH 1	<b>M21</b>	1.0 Vocational	9 <sup>th</sup> grade
BUILDING TRADES & CONSTRUCTION DESIGN TECH 2	<b>M22</b>	1.0 Vocational	10 <sup>th</sup> grade
TECHNICAL DRAFTING DESIGN 1	<b>M31</b>	1.0 Perform Arts	10 <sup>th</sup> grade
BUILDING TRADES & CONSTRUCTION DESIGN TECH 3	<b>M23</b>	1.0 Vocational	11 <sup>th</sup> grade
TECHNICAL DRAFTING DESIGN 2	<b>M32</b>	1.0 Perform Arts	11 <sup>th</sup> grade
BUILDING TRADES & CONSTRUCTION DESIGN TECH 4	<b>M24</b>	1.0 Vocational	12 <sup>th</sup> grade
EXECUTIVE INTERNSHIP 3 (Local Honors)	<b>Q01</b>	1.0 Elective	12 <sup>th</sup> grade (3.0 GPA& transportation required)
LEADERSHIP SKILLS DEVELOPMENT	<b>M10</b>	1.0 Elective	11 <sup>th</sup> or 12 <sup>th</sup> Gr Teacher Recommendation