

## 2007 Cost Estimates for PLTW Courses

### MIDDLE SCHOOL COST (BASED UPON AN EMPTY ROOM)- ITEM ANALYSIS IS NECESSARY TO DETERMINE BUDGET

Units	Computers (Includes Laptop computer for each Instructor)	Equipment & Supplies	Furniture	Software (MS Office, MS Bookshelf, Adobe Photoshop)	Consumables	Grand Total
Design & Modeling	\$ 27,098.45	\$ 7,577.33	\$7,186.14	\$ 1,484.00	\$839.41	<b>\$44,185.33</b>
Automation & Robotics	\$ 1,436.45	\$ 5,610.04	\$ 703.80	\$ 0	\$ 0	<b>\$ 7,750.29</b>
<b>GTT Basic Total</b>	<b>\$ 28,534.90</b>	<b>\$13,187.37</b>	<b>\$7,889.94</b>	<b>\$1,484.00</b>	<b>\$839.41</b>	<b>\$ 51,935.62</b>
Magic of Electrons*	\$ 1,436.45	\$ 3,315.50	\$ 406.10	\$ 0	\$ 235.02	<b>\$ 5,393.07</b>
Science of Tech*	\$ 1,436.45	\$ 2,549.73	\$ 406.10	\$ 0	\$ 271.92	<b>\$ 4,664.20</b>
Flight & Space*	\$ 1,436.45	\$ 3,369.62	\$ 406.10	\$ 0	\$ 762.97	<b>\$ 5,975.14</b>

- The above additional units may be selected and added to the GTT Basic program to expand the program offerings. This cost can be reduced if the school already has equipment and/or computers meeting or exceeding the PLTW specifications.
- Total cost for two middle school laboratories implementing GTT Basic with 26 student stations is approximately \$51,151.

### HIGH SCHOOL COST (BASED UPON AN EMPTY ROOM)- ITEM ANALYSIS IS NECESSARY TO DETERMINE BUDGET

Course	Computers (Includes Laptop computer for each Instructor)	Equipment & Supplies	Furniture	Software (MS Office, MS Bookshelf, Adobe Photoshop)	Consumables	Grand Total
Computer Lab	\$21,176.45	\$ 6,637.14	\$ 5,569.00	\$ 1,147.60	\$ 839.41	<b>\$ 35,369.60</b>
<b>FOUNDATION COURSES</b>						
Intro to Eng. Design	\$ 1,436.45	\$ 1,110.74	\$ 406.10	\$ 0	\$ 399.82	<b>\$ 3,353.11</b>
Digital Electronics	\$ 1,436.45	\$ 6,277.01	\$ 406.10	\$ 0	\$ 50.20	<b>\$ 8,169.76</b>
Principles of Eng.	\$ 1,436.45	\$17,940.04	\$ 640	\$ 0	\$ 222.32	<b>\$ 20,238.81</b>
<b>HS Foundation Course Total</b>	<b>\$25,485.80</b>	<b>\$30,964.93</b>	<b>\$12,247.90</b>	<b>\$1,147.60</b>	<b>\$1,511.75</b>	<b>\$67,131.28</b>
<b>SPECIALIZATION COURSES</b>						
Aerospace	\$ 1,436.45	\$ 8,964.02	\$ 406.10	\$ 0	\$ 671.97	<b>\$ 11,478.54</b>
Biotechnical	\$ 1,436.45	\$ 6,142.23	\$ 406.10	\$ 0	\$1,204.84	<b>\$ 9,189.62</b>
Civil/Architecture	\$ 1,436.45	\$ 3,384.46	\$ 406.10	\$ 0	\$ 32.61	<b>\$ 5,259.62</b>
Computer Integrated Manufacturing	\$ 1,436.45	\$47,180.06	\$ 2,113.80	\$ 0	\$2,058.81	<b>\$ 52,789.12</b>
Engineering Design & Development	\$ 1,436.45	\$1,249.90	\$0	\$914.40	\$18.40	<b>\$3,619.15</b>

Per your School District Agreement, you are only required to implement one Specialization Course. **High School costs are based on one lab with 20 student stations.** This cost can be reduced if: **1.** The school already has equipment and/or computers meeting or exceeding the PLTW specifications. **2.** The district implements courses over time.

# Autodesk Software

**Software required if running any of the following PLTW courses:**

**Principles of Engineering (POE)  
Introduction to Engineering Design (IED)  
Gateway to Technology (GTT)  
Civil Engineering and Architecture (CEA)  
Engineering Design and Development (EDD)  
Aerospace Engineering (AE)  
Biotechnical Engineering (BE)**

- You may now use Autodesk products for classes *other than PLTW classes*.
- You will have 100 licenses with all of the included Autodesk products for your school. High Schools may share their Autodesk Inventor Professional licenses with participating district Middle Schools within the 100 license parameter.
- Only High Schools in their first year of PLTW implementation may elect to lease the Autodesk Inventor Professional for \$2,900. With this scenario, you will have 100 licenses of Autodesk Inventor Professional *that may only be used in conjunction with PLTW courses*. First year schools would then migrate to the ADA lease in year two.
- Middle Schools without a participating district High School may choose the Autodesk Inventor Professional option for \$2,900 per year.

<b>Software</b>	<b>DW or SS</b>	<b>Number of Seats</b>	<b>Unit Cost</b>
Autodesk ADA Package Includes: Autodesk Inventor Professional Autodesk Revit AutoCAD Autodesk VIZ Autodesk Architectural Desktop	SS	100	\$3,995.00
Autodesk Inventor Professional Only <b>-First Year PLTW High Schools Only</b>	SS	100	\$2,900.00
Autodesk Inventor Professional Only <b>-PLTW Middle Schools Only</b>	SS	100	\$2,900.00

**Software required if running the following PLTW course:**

**Digital Electronics (DE)**

<b>Software</b>	<b>DW or SS</b>	<b>Number of Seats</b>	<b>Unit Cost</b>
MultiSIM	SS	25	\$650.00
Ultiboard (optional) -Printed Circuit Board Layout software	SS	25	\$600.00

**Software required if running the following PLTW course:**

**Computer Integrated Manufacturing (CIM)**

<b>Software</b>	<b>DW or SS</b>	<b>Number of Seats</b>	<b>Unit Cost</b>
CIM Bundle Includes:			\$2,100.00
Eshed Robotic Robocell	DW	30	
CNC Motion	DW	30	
Edge CAM	DW	25	
Additional Seats:			
Eshed Robotic Robocell	DW	30	\$800.00
CNC Motion	DW	30	\$800.00
Edge CAM	DW	25	\$500.00
Open-CIM (Optional)	DW	30	\$800.00

**OPTIONAL software if running the following PLTW courses:**

**Principles of Engineering (POE)  
Computer Integrated Manufacturing (CIM)  
Engineering Design and Development  
Aerospace Engineering (AE)  
Biotechnical Engineering (BE)**

<b>Software</b>	<b>DW or SS</b>	<b>Number of Seats</b>	<b>Unit Cost</b>
LabVIEW™ Full Development System (Optional) 12 month term (July 1–June 30) <b>(Optional)</b>	SS	25	\$1,200.00
LabVIEW™ Full Development System (Optional) 12 month term (July 1–June 30) <b>(Optional)</b>	SS	100	\$2,400.00

## Professional Development Costs

- Laptop Computer For Each Teacher  
(As per school Agreement and included in the course costs on page 1)  
\$1,545.00
  
- Summer Training Institute
  - Registration depending on the institute attended  
\$ 1,800.00 - \$ 2,400.00
  - Room and Board depending on the institute attended:  
\$ 800.00 - \$1,600.0