

Computer-Integrated Machining Required Tool List 2022-2023

	Description	MSC #	MSC \$ With Discount
1	Tool Box (20" X 9" X 12")	33626169	123.94
2	1" Travel Dial Indicator & Magnetic Base	55023113	74.35
3	Dial indicator- horizontal, .0005 res, .030 range	30752299	161.66
4	Indicator Articulated Arm Positioner and Holder	08074387	73.41
5	Machinist Square	06507537	25.50
6	.200"/.500" Edge Finder	06499628	13.62
7	Center Gage	67385013	10.56
8	Screw Pitch Gage*	01221043	22.11
9	Thread Wire Measuring Set	78156619	35.30
10	Parallel Set	06820898	83.82
11	Metric and English Hex Key Set*	05051644	21.08
12	10 pc. Wrench Set*	35159060	28.12
13	Adjustable wrench*	79322046	14.81
14	Torx Key Set*	63615744	11.96
15	Ball-Peen Hammer*	40973539	12.13
16	Dead blow Hammer*	06622708	17.10
17	5 Piece File Set w/ Handle	05331319	73.23
18	Needle Nose Pliers*	73211120	8.46
19	File Card*	00650655	8.27
20	Swiss File Set*	00228056	14.01
21	India Sharpening Stone	05111380	15.01
22	Single Point Scriber with Magnet*	76498898	8.78
23	0-1" micrometer	06231658	122.00
24	6" Dial Caliper	84477736	125.00
25	6" steel rule*	59624643	8.37
26	Protractor	06475172	11.50
27	1/8-1/2" HSS 2 flute end mill set	02477412	73.41
28	3/4" HSS 4 flute end mill	41115254	43.09
29	3/8" Tool Bit Blanks (qty 5)	02603249	4.48 (22.40)
30	3/8" x 120° spot drill	56444060	10.49
31	1/2" x 90° spot drill	71332324	17.73
32	Padlock for toolbox & locker (qty 2)*	87743670	9.13 (18.26)
33	Deburring tool set	05750997	20.62
34	Safety Glasses*	76652007	2.24
35	Calculator with trig functions (NOT cell phone)	Not MSC	≈15.00
36	2 permanent markers (black Sharpie)	Not MSC	≈4.00
37	Shop Reference for Students & Apprentices (ISBN-10: 0831130792)	Not MSC	≈35.00
			Approx. Total \$1345

Above items and pricing are through www.mscdirect.com. Non-precision tools have an asterisk- these items may substituted with alternatives. To receive a discount at MSC, fill your cart and create an account. Use TSCT account number **2503341** and **17602** as a zip code, but **put your personal information into the rest of the fields. Prices and MSC# are subject to change over time.**

Tool boxes must be able to be stored in a locker and moved daily. Therefore, **MAXIMUM** size is equivalent to a Craftsman "Rally" or Kennedy "Little Bullhorn." **20"x 9"x 12" MAX. Larger cabinets or boxes will not be permitted.**

Computer: Students will have access to a computer lab on the Greiner Campus between the hours of 7:00 AM – 8:00 PM where they may complete their assignments. However, it is recommended that they have their own computer capable of running the complex programs we teach in this major. Listed below is a list of minimum and recommended computer requirements. We also highly recommend hardware above the minimum requirements as the requirements will change from year to year.

OS

Minimum: Windows 7, 8.1, or 10 64-bit Professional Windows 10
Recommended: Windows 10 64 bit Professional

Processor

Minimum: Intel® or AMD 64-bit processor, 2.4 GHz or faster
Recommended: Intel i7 or Xeon® E3, 3.2GHz or faster

Memory

Minimum: 16 GB
Recommended: 32 GB

Video Card

Minimum: OpenGL 3.2 and OpenCL 1.2 support with 1 GB memory. No onboard graphics.
Recommended: NVIDIA Quadro® or AMD FirePro™ / Radeon Pro card with 4 GB (or higher)

Storage

Minimum: Hard drive with at least 20 GB free
Recommended: Solid State Drive (SSD) with at least 20GB free

Uniforms are **required daily**. **Safety toe boots, and blue 874 Dickies work pants** must be purchased.

Please bring **\$35 for uniform tops** the first day of class so we may order them (checks to Thaddeus Stevens College with “Graphic Communications” in memo line) Hoodies and other apparel are available for a small fee.

Please contact the instructors with any questions:

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