St Cloud Technical and Community College
Architectural Construction Technology
Fall Semester 2023 Schedule
1st Year Students

Need Laptop – see attached

Course ID #	Course Name	Subject #	Cr
000028	Introduction to Architectural Drafting	ARCH1503	2
000023	Introduction to Architectural CAD	ARCH1506	3
000022	Residential Design Principles	ARCH1522	2
000031	Building Materials & Methods	CNST1502	3
	Gen Education or Gen Studies Courses		

Weekly Schedule

Hour	Monday	Tuesday	Wednesday	Thursday	Friday
7 a.m.					
8 a.m.					
9 a.m.	Intro to Drafting	Building Materials	Intro to Drafting	Building Materials	
10 a.m.	till 10:20	till 10:20	till 10:20	Till 10:20	
11 a.m.	Residential Design		Residential Design		
12 p.m.		Intro to CAD		Intro to CAD	
1 p.m.		Intro to CAD		Intro to CAD	
2 p.m.		till 2:20		till 2:20	
3 p.m.					

Semester: Fall, 2023   Instructor: Jed Johnson

Architectural Construction Technology
Program of Study Worksheet
AAS Degree

Name _____   Date _____

Address _____   Advisor _____

Telephone _____

GENERAL EDUCATION

Required Course	Name of Course Completed	Transfer Credits	Req'd. Credits.	Completed Credits
MNTC Goal Area 1 Communications-Oral			3	
MNTC Goal Area 1 Communications-Written			3	
MNTC Goal Area 4 Math/Logic			3	
MNTC Goal Area 5 Social, Behavior Sciences			3	
MNTC General Education Elective			3	

Total General Education Credits 15

TECHNICAL STUDIES

Course Code	Course Name	Cr	Semester	Completed Credits
ARCH1503	Intro to Architectural Drafting	2	Fall - 1st Yr	ACT
ARCH1506	Intro to Architectural CAD	3	Fall - 1st Yr	ACT
CNST1502	Building Materials and Methods	3	Fall - 1st Yr	CNST
ARCH1522	Residential Design Principles	2	Fall - 1st Yr	ACT
ARCH1510	CAD and Design Studio I	6	Spring - 1st Yr	ACT
CNST1506	Estimating for the Construction Trades I	3	Spring - 1st Yr	CNST
ARCH1534	Residential Design & Presentation	2	Spring - 1st Yr	ACT
ARCH2506	Architectural Design Studio I	3	Fall - 2nd Yr	ACT
ARCH2510	Architectural CAD II	3	Fall - 2nd Yr	ACT
ARCH2522	Commercial Design Principles and Practices	2	Fall - 2nd Yr	ACT
CNST2502	Estimating for the Construction Trades II	3	Fall - 2nd Yr	CNST
ARCH2530	Sustainable Building Systems	2	Fall - 2nd Yr	ACT
ARCH2518	Architectural CAD III	3	Spring - 2nd Yr	ACT
CNST2506	Construction Management	3	Spring - 2nd Yr	CNST
CNST2510	Commercial Estimating & Project Analysis	2	Spring - 2nd Yr	CNST
ARCH2542	Structural Building Systems	3	Spring - 2nd Yr	ACT
ARCH2551	Professional Constructor Seminar (8 weeks)	1	Spring - 2nd Yr	ACT

ACT Credits   32
CNST Credits   14
Gen Ed Credits 15
Total Credits 61

Architectural Construction Technology
Program of Study Worksheet
<u>Diploma</u>

Name _____   Date _____

Address _____   Advisor _____

Telephone _____

GENERAL STUDIES

Required Course Gen. Studies (Gen Ed)	Name of Course	Transfer Credits	Req'd. Credits	Completed Credits
Stretch Analytical Writing ENGL 1308 *Analytical Writing ENGL 1302 *Technical Writing ENGL 1303			3	
Human Relations for the Diverse Workplace DVRS 1310 *Diversity & Social Justice DVRS 1304			3	

Total General Studies Credits   6

*General Education courses that can be used for Diploma Requirements

TECHNICAL STUDIES

Course Code	Course Name	Cr	Semester	Completed Credits
ARCH1503	Intro to Architectural Drafting	2	Fall - 1st Yr	ACT
ARCH1506	Intro to Architectural CAD	3	Fall - 1st Yr	ACT
CNST1502	Building Materials and Methods	3	Fall - 1st Yr	CNST
ARCH1522	Residential Design Principles	2	Fall - 1st Yr	ACT
ARCH1510	CAD and Design Studio I	6	Spring - 1st Yr	ACT
CNST1506	Estimating for the Construction Trades I	3	Spring - 1st Yr	CNST
ARCH1534	Residential Design & Presentation	2	Spring - 1st Yr	ACT
ARCH2506	Architectural Design Studio I	3	Fall - 2nd Yr	ACT
ARCH2510	Architectural CAD II	3	Fall - 2nd Yr	ACT
ARCH2522	Commercial Design Principles and Practices	2	Fall - 2nd Yr	ACT
CNST2502	Estimating for the Construction Trades II	3	Fall - 2nd Yr	CNST
ARCH2530	Sustainable Building Systems	2	Fall - 2nd Yr	ACT
ARCH2518	Architectural CAD III	3	Spring - 2nd Yr	ACT
CNST2506	Construction Management	3	Spring - 2nd Yr	CNST
CNST2510	Commercial Estimating & Project Analysis	2	Spring - 2nd Yr	CNST
ARCH2542	Structural Building Systems	3	Spring - 2nd Yr	ACT
ARCH2551	Professional Constructor Seminar 8 weeks	1	Spring - 2nd Yr	ACT

ACT Credits   32
CNST Credits   14
Gen Studies Credits 6
<u>Total Credits 52</u>

ARCHITECTURAL Program Laptop Requirements – 2023

HP ZBook Fury 16 G9 Mobile Workstation or equal

Wolf Pro Security - Intel Core i7 12800HX / 2 GHz - Win 11 Pro (includes Win 11 Pro License) - NVIDIA RTX A1000 / Intel UHD Graphics - 16 GB RAM - 512 GB SSD NVMe, TLC - 16" IPS 1920 x 1200 - Wi-Fi 6E, Bluetooth - kbd: US - with HP Wolf Pro Security Edition

Not Acceptable: Apple computers using MAC OS or Apple devices using iOS, Chromebooks or tablets using Android OS

Minimum specifications below…
Processor: Intel Core i7 or better, 2 GHz or better recommended
Memory: 16 GB RAM
Storage: 512 GB
Operating System: Windows 11 Pro, 64-bit
Camera (webcam) w/ built in microphone
Bluetooth capable
Dimensions: 17" screen recommended, but a 15" will work and is less expensive
Ports and Slots: 2 minimum USB, HDMI port
Wireless mouse
More Information on SCTCC Website: https://www.sctcc.edu/laptop-program

System requirements for AutoCAD 2023 including Specialized Toolsets (Windows)	
Operating System	64-bit Microsoft® Windows® 11 and Windows 10 version 1809 or above. See Autodesk's Product Support Lifecycle for support information.
Processor	Basic: 2.5–2.9 GHz processor (base) ARM Processors are not supported. Recommended: 3+ GHz processor (base), 4+ GHz (turbo)
Memory	Basic: 8 GB Recommended: 16 GB
Display Resolution	Conventional Displays: 1920 x 1080 with True Color High Resolution & 4K Displays: Resolutions up to 3840 x 2160 (with capable display card)
Display Card	Basic: 1 GB GPU with 29 GB/s Bandwidth and DirectX 11 compliant Recommended: 4 GB GPU with 106 GB/s Bandwidth and DirectX 12 compliant DirectX 12 with Feature Level 12_0 is required for Shaded(Fast) and Shaded with edges(Fast) visual styles. Please be sure to use the latest video card manufacturer drivers from their website.
Disk Space	10.0 GB (suggested SSD)
Network	See Autodesk Network License Manager for Windows
Pointing Device	MS-Mouse compliant
.NET Framework	.NET Framework version 4.8 or later

Microsoft Word/Office software
- FREE Download for SCTCC Students: Microsoft Office 365 ProPlus
  Help Desk: www.sctcc.edu/student-help-desk
- SCTCC's Office 365 subscription allows current students to download and run Microsoft Office on up to 5 machines (PC or Mac) and also on up to 5 mobile devices (Android, iPhone etc.).

Laptop Requirements
Fall 2023

First-year students in the programs listed below are required to purchase laptop computers and software. Laptops running Windows 10 are highly recommended. Apple computers using MAC OS or Apple devices using iOS, Chromebooks or tablets using Android OS are not recommended for use with the following programs.

Programs requiring personal computers:
- Architectural Construction Technology
- Computer-Aided Mechanical Design Technology
- Computer Programming
- Land Surveying/Civil Engineering Technology
- Energy & Electronics:
  - Mechatronics
  - Energy Technical Specialist
  - Robotics and Automation
  - Instrumentation and Process Control
- Information Technology:
  - Network Administration
  - Cyber Security
  - PC Specialist

Students in programs requiring laptops may order their laptop computers from a recommended vendor. The recommended company, Now Micro, has established a website for our students' use and their prices will be posted on the site. Sales tax will be added to the cost of computers and software. The recommended laptops are dependable and capable of performing the functions needed. They are high-end computers that will perform well during college years as well as after graduation.

Instructions for Purchasing SCTCC Standard Laptop Bundles through Now Micro
1. Go to the vendor website where you will find laptop pricing and specifications. Vendor site: https://usm.channelonline.com/now_micro/storesite/Login/main
2. Register as an individual and follow the prompts to set-up online profile or login in if you already have an account.
3. Once you submitted registration, please check your email for password.
4. Once logged into the store site, you will have a list of all products for sale at Now Micro. Enter keyword "SCTCC" under the Products search to access school-approved laptop bundle options.

*NOTE: Customers must select Credit Card as Payment Method, and either FedEx Ground or Will Pick Up at Store as Delivery Method. Orders that do not comply with these instructions will not be processed.