



Engineering Drafting: 2022-23 Course Syllabus

Instructor: **Ms. Jolaine M. Price**

Room: 145

e-mail: jprice@scslakeview-k12.com

phone: 586-445-4000 X2746

Teacher website: <http://lhscad.weebly.com>

Online access to all course info and resources: www.schoology.com

Credits: 1 credit toward graduation for 2 hour course, ½ credit toward graduation for 1 hour course

Course Overview:

As a State of Michigan approved Career and Technical Program, the goal of this program is to provide hands on job experiences and career awareness. Completion of the *entire* 2 credit series will prepare students for employment as an entry level CAD operator. Continuing education can provide career opportunities in the mechanical drafting field. These courses can be taken as a 2 hour block, or split over 2 semesters as a 1 hour block. 2 Drafting credits upon graduation = college credit towards a drafting degree.

All students will be given opportunity for work based learning thru field trips and job shadowing. This may be done virtually and/or physically depending on the event. Advanced students will be eligible for externships. Students will also be exposed to leadership opportunities through project based learning and optional CAD club.

Please see teacher website for up to date details.

Semester	Course Title	Main Objective	CAD Skill	Lecture Topics
1	Intro Drafting	Awareness of Design Disciplines Nx CAD Software: Basic Part Creation	Intro UGnx	Career Preparation and Employability
				Engineering Technology and Safety
				3D / Parametric Modeling / Surfacing
				2D Drawing / CAD
2	Engineering I	Advanced 3D model creation	UGNx Intermediate	Mastery of Geometric Construction
				Materials in Design
				Engineering Processes
				GD&T
3	Advanced Engineering	Advanced Software Projects	UGNx Advanced Projects	Advanced Engineering Drawings
				Advanced Engineering Design Concepts
				Finalize Portfolio
				Analysis in Design
				Research and Development Applications

Student Expectations:

There is no charge or fee for this class or its projects. However, lost or damaged materials such as textbooks, parts, locks, classroom equipment, etc. will be paid for by the student responsible.

In order to receive course credit, you must earn a passing grade in the course. In order to continue in a course sequence, you must receive a passing grade of C or better.



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The majority of the semester will be devoted to computer learning and hands on projects where students will demonstrate mastery through project completion and through computerized tutorials and testing. Students will be required to work independently and in small groups.

Students are also expected to prepare presentations in various formats including impromptu show and tell, PowerPoint, web pages, or written word processed reports each card marking. Students will be expected to complete assignments regularly and submit them via the classroom network to be graded.

Textbooks will not be issued to students. Instead, the following combination of classroom textbooks and ebooks will be referenced as well as other online resources made available through www.schoolology.com and www.lhscad.weebly.com

• Leu, Ming C., *NX10 FOR ENGINEERING DESIGN*, Missouri University of Science and Technology, MS, 2014. (Online version)

GRADING:

Semester grades are calculated as:

$(1\text{st MP} * 28\%) + (2\text{nd MP} * 28\%) + (3\text{rd MP} * 28\%) + (\text{Exam and Activity Eval} * 16\%)$

Each marking period will be scored as follows:

25%	Daily Work	Daily assignments in order to teach terminology, improve keyboarding and current events/issues.
75%	Assessment	Assessment to demonstrate successful learning through Quizzes, Exams & Projects.

100%

HYBRID MODEL COURSEWORK: Students will attend school on alternating days divided into Cohort A & Cohort B. Students will have access to all assignments and resources on www.schoolology.com. The expectation of every student is to do their best and participate in the activities as outlined on Mrs. Price's class on www.schoolology.com. Classroom expectations apply. On remote days, students are expected to turn in assignments in order to prove participation and attendance.

LATE WORK: Students with excused absences will be given an extension to their due date = to # of days excused. Late work is discounted 20% each day late. Work over 5 school days late will not be accepted.

LAB HOURS: The computer lab is available after school by appointment to offer students the ability to make up work. The student must preschedule with the instructor