

## Ag Mechanics II Course Outline - 180 Hours

Major Units of Instruction (Employability Skills, Content Area Skills, and Expected Student Proficiencies) Foundation and Pathway standards aligned Ag/Natural Resources Sector – Ag Mechanics Pathway (B)	Expected Student Learning Results (ESLRs)	Methods of Assessment & Materials Used	Class Hours	Academic Standards Reinforced
I. ESSENTIAL EMPLOYABILITY SKILLS/CAREER PREPARATION STANDARDS a. Understand how personal skill development affect employability (positive attitude, honesty, self-confidence, time management) <i>8.0</i> b. Understand principles of effective interpersonal skills (group dynamics, conflict resolution negotiations) <i>9.0</i> c. Understand the importance of good academic skills, critical thinking and problem-solving in the workplace <i>1.0, 5.0</i> d. Understand principles of effective communication <i>2.0</i> e. Understand occupational safety issues and observes all safety rules <i>B1.0</i> f. Understand career awareness, paths and strategies for obtaining employment <i>3.0</i> g. Understand and adapt to changing technology <i>10.0</i> h. Understand and prepare for employment (resume, job application, job interview, portfolio development) – job search skills <i>3.6</i>	Responsible Individuals Interpersonal Learner Effective Communicator Technological Producer Problem Solver	- Lecture demonstration - Guided practice - Independent practice - Use of models - Tests and quizzes - Class participation	5	<u>Language Arts</u> (8) R 1.3, 2.6 W1.3, 2.5. LC 1.4,1.5, 1.6 LS1.2, 1.3, 1.7 (9/10) R2.1,2,3,2.6; W2.5; LC1.4; LS 1.1, 2.3 (11/12) R2.3; W2.5; LC1.2 <u>Math (7)</u> NS1.2, 1.3, 1.7 MR 1.1,1.3,2.1, 2.7,2.8, 3.1 <u>CAHSEE</u> Lang. Arts R 8.2.1 (9/10) R 2.1, 2.3; W2.5 Math (7) NS 1.2, 1.3, 1.7 MR 1.1, 2.1, 3.1
II. ORIENTATION AND SHOP SAFETY <i>B1.0 (applies to all)</i> a. Rules for specific equipment b. Safety equipment to wear in shop c. Procedures for repairing equipment	Responsible Individuals Interpersonal Learner Effective Communicator Technological Producer Problem Solver	- Lecture demonstration - Guided practice - Independent practice - Use of models - Tests and quizzes - Class participation	15	
III. SHOP TOOLS AND USAGE <i>B1.2, B1.3</i> a. Shop orientation b. Location and use of tools	Responsible Individuals Interpersonal Learner Effective Communicator Technological Producer Problem Solver	- Lecture demonstration - Guided practice - Independent practice - Use of models - Tests and quizzes - Class participation	20	
IV. STUDENT PROJECTS a. Individual shop projects <i>5.0</i> b. Group shop projects <i>9.0, 5.0</i> c. Program shop projects <i>5.0</i>	Responsible Individuals Interpersonal Learner Effective Communicator Technological Producer Problem Solver	- Guided practice - Independent practice - Class participation	40	2.1 Reading: 2.3 Qs for research, 2.3 verify facts
V. AGRICULTURE MECHANICS a. Oxy-fuel welding and cutting <i>B7.0</i> b. Electric welding process <i>B8.0</i> c. Chains and ropes d. Surveying <i>B12.0(12.1)</i> e. Equipment operation and preventive maintenance <i>B1.0</i> f. Types of engines <i>B10.0, B11.0</i> g. Agriculture industry employee/employer relationships <i>B7.0</i> h. Safety <i>B1.0</i> i. Electrical systems <i>B11.6</i> j. Agriculture structures <i>B12.6</i> k. Record keeping <i>A4.0, 8.2</i>	Responsible Individuals Interpersonal Learner Effective Communicator Technological Producer Problem Solver	- Lecture demonstration - Guided practice - Independent practice - Use of models - Tests and quizzes - Class participation	100	1.1 Math (Apps. of Geometry 8.0, 11.0, 12.0) & 15.0 Alg in work problems

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l. Interpersonal leadership 9.0 m. Development n. Supervised practical experience project o. Measurement				1.1 Math 12.0 Geom 8, 10, 11, 12
<b>TOTAL</b>			<b>180</b>	