Diesel Technology • Butler Agriculture

Semester Course Outline • 2023 – 2024

20 Months (4 Semesters, 1 Summer Session) • Revised: 10/25/22

Associate of Applied Science (A.A.S.) Degree • Credits Required for Graduation: 75.5

LAKE AREA TECHNICAL COLLEGE

First Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
BUAG 105	Diesel Engine Fundamentals	112	4
BUAG 110	Butler Ag Service Systems	56	2
BUAG 115	Internship I	300	5
CSC 100	Computer Concepts	15	1
HAZ 100	Hazardous Materials Safety	14	.5
• Selected Communications Course (Choose one) CMST 101 – Fundamentals of Speech * (CSS 100 – Career Search Strategies .5 credit) COMM 101 – Communications and Career Strategies ENGL 101 – Composition * (CSS 100 – Career Search Strategies .5 credit)		45	3
	Total	542	15.5

First Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
BUAG 120	Fundamentals of Hydraulics	84	3
BUAG 125	Diesel Fuel Systems	84	3
BUAG 130	Fundamentals of Electricity	84	3
BUAG 135	Internship II	300	5
• Selected Social Science Course (Choose one) ECON 105 – Leadership in the Global Workplace ECON 201 – Principles of Microeconomics I * ECON 202 – Principles of Macroeconomics II * SOC 100 – Introduction to Sociology *		45	3
	Total	597	17

First Year – Summer Session

Course Number	Course Title	Clock Hours	Credits
BUAG 140	Fundamentals of Air Conditioning	56	2
BUAG 145	Fundamentals of Transmissions and Final Drives	84	3
DT 116	Metallurgy	56	2
PSYC 100	Psychology of Human Relations	45	3
	Total	241	10

Semester Course Outline • 2023 – 2024

Second Year – Fall Semester

Course Number	Course Title	Clock Hours	Credits
BUAG 200	Agriculture Undercarriage	28	1
BUAG 205	Agriculture Electronics and CAT communications	112	4
BUAG 210	Agriculture Hydraulic Systems	112	4
BUAG 215	Applied Failure Analysis	15	1
BUAG 220	Internship III	300	5
● Selected Mathematics Course (Choose one) MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra *		45	3
	Total	612	18

Second Year – Spring Semester

Course Number	Course Title	Clock Hours	Credits
BUAG 225	Agriculture Implement Fundamentals	56	2
BUAG 230	Machine Operation, Diagnostic, and Testing	56	2
BUAG 235	Agriculture Technology and Precision	84	3
BUAG 245	Internship IV	300	5
● Selected Mathematics Course (Choose one) MATH 100 – Applied General Math MATH 101 – Intermediate Algebra MATH 114 – College Algebra *		45	3
	Total	541	15

- Students will select a course in each of the areas listed to meet general education requirements. Courses marked with an asterisk (*) can be transferred directly to the university system and may be substituted for recommended courses on the outline. Students should speak with an advisor before doing so.

  Students who select to take transferable communications course CMST 101 or ENGL 101, must also register for CSS 100 – Career Search Strategies for .5 credit. This curriculum is required for all Lake Area Tech graduates and is included in the COMM 101 course but is separate from the university system.