

Transfer Degree Plan

Associate of Science Technology and Engineering – UAPTC

Bachelor of Science Computer Engineering – ATU

AY 2023-24

UAPTC (60-61 credit hours):

English/Communications Complete two (6 hours) ATU equivalent Hours

ENGL	1311	English Composition I	ENGL 1013 Composition I	3
ENGL	1312	English Composition II	ENGL 1023 Composition II	3

Math Complete one (4 hours) ATU equivalent Hours

MATH	1404	Calculus I	MATH 2914 Calculus I	4
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Lab Sciences Complete two (8 hours) ATU equivalent Hours

CHEM	1305	General Chemistry I	CHEM 2124 General Chemistry I <i>and</i>	4
CHEM	1105	General Chemistry I Lab	CHEM 2120 General Chemistry I lab	
PHYS	1305/ 1105	Advanced College Physics I	PHYS 2114 Calculus-Based Physics I and PHYS 2000 Physics Laboratory I	4

History/Government Complete one (3 hours) ATU equivalent Hours

HIST	2311	United States History to 1877 OR	HIST 2003 United States History to 1877	3
HIST	2312	United States History since 1877 OR	HIST 2013 United States History since 1877	3
POLS	1310	American National Government	POLS 2003 American Government	2

World History Complete one (3 hours) ATU equivalent Hours

HIST	1311	History of Civilization I OR	HIST 1503 World History to 1500	3
HIST	1312	History of Civilization II	HIST 1513 World History since 1500	

Literature Complete one (3 hours) ATU equivalent Hours

ENGL	2337	World Lit. from the Beg. to 1650	ENGL 2003 Introduction to World Lit.	3
ENGL	2338	World Lit. from 1650 to Present	GEHM 2XXX Gen. Ed – Humanities Credit	3
MUSC	2300	Introduction to Music OR	MUS 2003 Introduction to Music	3
THEA	2300	Introduction to Theatre OR	TH 2273 Introduction to Theatre	3
ARTS	2300	Introduction to Visual Art	ART 2123 Experiencing Art	3

Fine Arts Complete one (3 hours) ATU equivalent Hours

MUSC	2300	Introduction to Music	MUS 2003 Introduction to Music	3
THEA	2300	Introduction to Theatre	TH 2273 Introduction to Theatre	3
ARTS	2300	Introduction to Visual Arts	ART 2123 Experiencing Art	3

Social History & Science Complete two (6 hours) ATU equivalent Hours

HIST	2311	US History to 1877 (if not chosen above)	HIST 2003 United States History to 1877	3
HIST	2312	US History since 1877 (if not chosen above)	HIST 2013 United States History since 1877	3
POLS	1310	American National Government (if not chosen above)	POLS 2003 American Government	3
HIST	1311	History of Civilization I (if not chosen above)	HIST 1503 World History to 1500	3
HIST	1312	History of Civilization II (if not chosen above)	HIST 1513 World History since 1500	3
ECON	2322	Principles of Microeconomics	ECON 2013 Principles of Economics II	3
ECON	2323	Principles of Macroeconomics	ECON 2003 Principles of Economics I	3
SOCI	2300	Introduction to Sociology	SOC 1003 Introduction to Sociology	3
PSYC	2300	Psych. & the Human Experience	PSY 2003 General Psychology	3
SPCH	1300	Speech Communication	COMM 1003 Intro. to Comms.	3
PSYC	2300	Psychology and the Human Experience	PSY 2003 General Psychology	3

Core Electives Complete 24-25 Hours ATU equivalent Hours

CIS	2514	Introduction to Computer Science I	COMS 1013 Programming I <i>and</i> COMS 1011 Programming I Lab	4
CIS	2644	Introduction to Computer Science II	COMS 2203 Programming II and GENL 2XXX General Elective Credit	4
CIS	2653	Computer Organization and Assembly Language AND	COMS 2223 Computer Organization and Programming	3
CIS	2733	Data Structures	COMS 2213 Data Structures	3
MATH	1405	Calculus II	MATH 2914 Calculus II	4
MATH	2406	Calculus III	MATH 2934 Calculus III	4
MATH	2310	Discrete Math	MATH 2703 Discrete Math	3
PHYS	1306	Advanced College Physics II	PHYS 2124 Calculus-Based Physics II <i>and</i>	4
PHYS	1106	Advanced College Physics II	PHYS 2010 Physics Laboratory II	

Arkansas Tech University Courses (64 credit hours):

TECH	1001	Orientation to the University ¹	Waive
ELEG	1011	Introduction to Electrical Engineering	1
ELEG	2134	Digital Logic Design <i>and</i>	4
ELEG	2130	Digital Logic Design Lab	
ELEG	2103	Electric Circuits I	3
ELEG	2111	Electric Circuits Lab	1
ELEG	2113	Electric Circuits II	3
ELEG	3243	Differential Equations	3
ELEG	3133	Microprocessor Systems Designs	3
STAT	3153	Applied Statistics I	3
ELEG	3133	Microprocessor Systems Design	3
ELEG/MCEG	3003	Engineering Modeling and Design	3

ELEG	3103	Electronics I	3
ELEG	3123	Signals and Systems	3
ELEG	3143	Electromagnetics	3
COMS	3703	Operating Systems	3
ELEG	4103	Electronics II	3
ELEG/MCEG	4202	Engineering Design	2
ELEG	4113	Digital Signal Processing	3
ELEG	4122	Electrical Systems Lab	2
ELEG	4133	Advanced Digital Design	3
ELEG	4143	Communication Systems I	3
ELEG	4191	Electrical Design Project I	1
ELEG	4303	Control Systems	3
ELEG	4192	Electrical Design Project II	2
		Electrical Engineering Elective ^{2,3}	3

¹Waive TECH 1001 for UAPTC transfer students.

²Engineering Elective must be a 3000 or 4000 level Electrical Engineering course.

³This program partners the BSCMPE undergraduate degree with the MSEE degree. A maximum of 12 graduate level credit hours can be counted towards both the BSCMPE degree in Computer Engineering and the MSEE degree. Four graduate level courses can be used to replace four upper division undergraduate courses as follows: • ELEG 5313 can replace ELEG 4313 Modern Control Systems • ELEG 5113 can replace ELEG 4113 Digital Signal Processing • ELEG 5153 can replace ELEG 4153 Communication Systems II • ELEG 5133 can replace ELEG 4133 Advanced Digital Design • ELEG 5993 can replace ELEG 4993 Special Problems in Engineering