			Alexandria Technical and Community College		Thomas Edison State University		NAVY MOS
			AS Nuclear Engineering Technology			BS - Nuclear Energy Engineering Technology	Nuclear Power School
TESU			ATCC			TESU	NAVY Power School
egree Requirements	Credits Needed	ATCC Course	Course Title	Credits	TESU Course/Option	Course Title	Credits
General Education Requirements		46					
A. Intellectual and Practical Skills							
. Written Communications		ENGL1410	English Composition I	3			
	6	ENGL 1420	English Composition II	3			
Oral Communications	3				COM-209	Public Speaking	3
Quantitative Literacy	3	MATH1447	Introduction to Statistics	4		' '	
·							
nformation Literacy / SOS 110: Critical Information Literacy	3				SOS-110	Critical Information Literacy	3
Civic and Global Learning							
versity	3				TBD	TESU Diversity Course List	3
hics	3	PHIL1460	Naval Ethics and Leadership	3			
vic Engagement	3	POLS1635	Civilian/Military Relations, Organ & American Government	3			
Knowledge of Human Cultures			, , , , , , , , , , , , , , , , , , , ,				
al Sciences	3	GEOG1500	Intro to Geopolitical Environ	3			
ory	3	HIST1665	Modern Naval History	3			
nanities	3	ENGL1495	Environmental Literature	3			
wo Courses from the categories above		COMM1427	Intercultural Communication	3			
	6				TBD	TESU Social Science/History/Humanities Course List	3
Scientific Knowledge	_	CHEM1500	Chemistry I with Lab	4			Yes
	7	MFGT2552	Programmable Logic Controllers	4			
lajor: Nuclear Energy Engineering Technology		67	rrog.ammable zogle controllers				
culus I	4	MATH-1426	Calculus I	4			
culus II	4	MATH-2232	Calculus II	4			
sics I with Lab	4	PHYS1081	Enginering Physics I with Lab	4			Yes
sics I with Lab	4	PHYS1082	Engineering Physics II with Lab	4	+		163
C-303 Nuclear Physics for Technology	3	111131002	Engineering raysies it with Edb	7	NUC-303	Nuclear Physics for Technology	3 Yes
M-321 Thermodynamics	3				EGM-321	Thermodynamics	3 Yes
VI-323 Heat Transfer	3				EGM-323	Heat Transfer	3 ACE MM (MO) Only
<i>I</i> -331 Fluid Mechanics	2				EGM-331	Fluid Mechanics	3 ACE WIN (WIO) OTHY
					NUC-365	Reactor Fundamentals	3 Yes
Reators/Plant Systems	6				NUC-331	Primary Reactor Systems	3
C-351 Nuclear Instrumentation and Control	3				NUC-351	Nuclear Instrumentation and Control	3 Yes
C-551 Nuclear Histration and Control	3				TBD	TESU Radiation Effects Course List	3
Radiation Effects	6				TBD	TESU Radiation Effects Course List	3
ctrical Theory	3				ELE-211	DC Circuits	3 Yes
C-402 Nuclear Materials	3				NUC-402	Nuclear Materials	3
C-238 Radiation Analysis Laboratory	1				NUC-402 NUC-238	Radiation Analysis Laboratory	1
AOS Electives	1	TBD	Nuclear Technical Elective	4	NUC-238	Radiation Analysis Laboratory	
	10	IRD	inuclear recriffical Elective	4	TBD	TESU Nuclear Electives	Yes 3
	10				TBD		3
400 Farriage Tarker I Assessment (Common Richards	2					TESU Nuclear Electives	, ,
-490 Engineering Technology Assessment/Career Planning	3				APS-490	Engineering Technology Assessment/Career Planning	3
C-495 Nuclear Energy Engineering Technology Capstone	4	_			NUC-495	Nuclear Energy Engineering Technology Capstone	4
Electives		/	D. C. L. L.		+		
		MATH1425	Pre-Calculus	4	+		
		HIST2410	Naval Force Design	3			
Т	OTAL 120	ATCC TOTAL	1	63	TESU TOTAL		59

Options for Civic Engagement TESU Course - Credits FDR-440: Fundraising for Nonprofits - 3

GLB-301: Global Issues and Society - 3 POS-110: American Government - 3

POS-282: Introduction to Comparative Politics - 3

POS-310: Constitutional Issues - 3

SOC-376: Women and Social Action - 3

SOS-370: Challenges in U.S. and Global Public Health - 3

SOS-425: Deliberative Democracy and Social Action - 3

Options for Diversity TESU Course - Credits

ANT-101: Introduction to Anthropology - 3 COM-335: Intercultural Communication - 3

GLB-301: Global Issues in Society - 3

GOG-230: World Geography - 3

HEA-305: Women's Health - 3 HEA-306: Men's Health - 3

HIS-126: World History from 1600 to Present - 3

HIS-210: American Civil Rights Movement - 3

HIS-261: Introduction to Chinese History and Culture - 3

HIS-301: African History and Culture - 3

HIS-306: African American History - 3

LDR-422: Leadership in a Global Environment - 3

MAN-372: International Management - 3 POS-282: Introduction to Comparative Politics - 3

POS-315: International Relations I - 3

PSY-270: Psychology of Women -3

POS-420: Conflict in International Relations - 3

NUC-413 Radiation Interactions - 3 RPT-260 Radiation Detection and Instrumentation - 3 RPT-270 Introduction to Nuclear Engineering Technology and Radiation Health Physics - 3 RPT-271 Radiation Biology - 3 RPT-272 Radiation Ecology - 3

RPT-275 Introduction to Radiation Generating Devices - 3

RPT-280 Radioactive Shipping, Packaging, and Transporting - 3

RPT-302 Radiation Shielding and External Dosimetry - 3

Options for Nuclear Electives TESU Course - Credits

NUC-342 Radialogical, Reactor and Environmental Safety - 3

APS-400 Occupational Safety and Health - 3

NUC-380 Nuclear Rules and Regulations - 3

APS-402 Applied Quality Management - 3

NUC-412 Radiation Biophysics - 3

Options for Radiation Effects TESU Course - Credits

NUC-342 Radialogical, Reactor and Environmental Safety - 3

NUC-412 Radiation Biophysics - 3

NUC-413 Radiation Interactions - 3

RPT-270 Introduction to Nuclear Engineering Technology and Radiation Health Physics - 3