## MINOR IN NAVAL ENGINEERING **CHECKSHEET**

Students must maintain a 2.0 in-Minor GPA with a minimum grade of C- or better in all courses that the student counts towards the minor. Indicate grade ( ) in the boxes below:

Student Name			Studer	nt PIN		
Student Major: GPA: Expected Graduation (M.			M/Y):			
Registered for NEE	C at <u>h</u>	tp://goneec.org/ (Y)				
1. Required courses	: (9 uni	ts)				
	Co	ourse		Term (ex: Fall 2011)	Units	Grade
AOE 2204 - Intro to Ocean Engineering or AOE 3204 - Naval Architecture				3		
AOE 4264 - Principles of Naval Engineering					3	
	arch or	(for non-OE majors) de	sign		3	
Naval Engineering U	G Rese	earch or Project Title and	d Instru	ctor		
		Ç .				
2. Complete additio	nal 9 u	nits from the following l	ist with	a minimum grade	of C- or	better:
	Co	ourse		Term (ex: Fall 2011)	Units	Grade
						<u> </u>
		Ship Design (3)				
AOE 4266 (	)*	Ship Design (3)			(2)	
4994 (	)*	UG Research w/Naval	_	0 11	• •	
A OE 2204 (	* ma	y substitute similar capstone	_	ourse, project or resea	ren in stude	nt's major
AOE 3204 ( AOE 4244 (	)	Naval Architecture (3)				
`	)	Marine Engineering (3		)		
AOE 3314 (	)	Naval Ship System De	_			
AOE 3264 (	)	Resistance and Propul		Silips (3)		
AOE 3104 (	)	Aircraft Performance	. ,			
AOE 3134 (	)	Stability and Control (		ng (2)		
AOE 4234 (	)	Aerospace Propulsion	•			
AOE 4140 (	)	Spacecraft Dynamics and Control (3)				
CHE 2164 (	)	Chemical Engineering	•	• • • • • • • • • • • • • • • • • • • •		
CHE 3184 (	)	Chemical Reactor Analysis and Design (3)				

CEE 3104 ( )	Introduction to Environmental Engineering (3)					
CS 3724 ( )	Introduction to Human-Computer Interaction (3)					
CS 3114 ( )	Data Structures and Algorithms (3)					
CS 3204 ( )	Operating Systems (3)					
CS 3304 ( )	Comparative Languages (3)					
ECE 3054 ( )	Electrical Theory (3)					
ECE 3304 ( )	Introduction to Power Systems (3)					
ECE 4224 ( )	Power Electronics (3)					
ECE 3574 ( )	Applied Software Engineering (3)					
ECE 2704 ( )	Signals and Systems (3)					
ECE 3504 ( )	Digital Design I (4)					
ECE 2500 ( )	Computer Organization & Architecture (3)					
ESM 2204 ( )	Mechanics of Deformable Bodies (3)					
ESM 3015 ( )	Fluid Mechanics I, II (3)					
` /	) Mechanical Behavior of Materials (3)					
ESM 4044 ( ) Mechanics of Composite Materials (3)						
ESM 4734 ( )	An Introduction To The Finite Element Method (3) (AOE 4024)					
ISE 3614 ( )	Intro to Human Factors Engineering (3)					
ISE 2014 ( )	Engineering Economy (2)					
ISE 2404 ( )	• • •					
ISE 3414 ( )	• • • • • • • • • • • • • • • • • • • •					
ISE 3624 ( ) Industrial Ergonomics (3)						
ISE 4005 ( )						
ME 3124 ( )						
ME 3124 ( ) ME 3304 ( )	Thermodynamics (3) Heat and Mass Transfer (3)					
ME 3404 ( )	Heat and Mass Transfer (3)					
ME 3404 ( ) ME 3514 ( )	Fluid Mechanics (3)					
ME 3314 ( ) ME 4124 ( )	System Dynamics (3)  CAD of Flyid Thormal Systems (3)					
, ,	CAD of Fluid-Thermal Systems (3)  Principles of Materials Correction (2)					
MSE 4164 ( )	Principles of Materials Corrosion (3)					
MSE 4034 ( )	Thermodynamics of Materials (3)					
MSE 3054/3064 (						
MSE 4354 ( )	Strength and Fracture (1)					
Hidden prerequisite	es may apply – see your advisor					
3. Total Units (18 i	required)					
5. Total Ollits (101	equirea)					
4. Minor Program Approva	l (prior to completion)					
5.						
J.						
Dr. Alan Brown, AOE, albro	own5@vt.edu Date					
6. Minor Program Complet	te (for award)					
o. Willor Frogram Complet	a (101 uvidu)					
Dr. Alan Brown, AOE, albro	own5@vt.edu Date					

This minor supports the requirements of the Naval Engineering Education Consortium (NEEC) in which students may also participate. The consortium provides opportunities for industry and US Navy mentors, projects, internships, co-ops and job opportunities.