

Department of Naval Architecture, Ocean & Marine Engineering  
Undergraduate Class List for Exchange Students



<b>Year 1 MEng / BEng Year Adviser Dr I Lazakis</b>			
<b><i>Class</i></b>		<b><i>ECTS Credits</i></b>	<b><i>Semester</i></b>
NM 102	Introduction to Naval Architecture	10	Both
NM 103	Analysis Tools for Marine Design	10	Both

<b>Year 2 MEng / BEng Year Adviser Dr S Oterkus</b>			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM 209	Principles of Marine Design and Production	10	Both
NM 210	Analysis & Design of Marine Structures 1	10	Both
NM 211	Engineering Applications for Naval Architects and Marine Engineers	10	Both
NM 212	Hydrostatics and Stability of Marine Vehicles	10	Both
NM 213	Marine Engineering Fundamentals	10	Both

<b>Special Classes (Subject to Approval)</b>			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM 214	Principles of Marine Design and Production (for Exchange Students)	5	1
NM216	Principles of Marine Design and Production (Semester 2)	5	2
NM338	Analysis Design of Marine Structures I (Semester 2)	5	2
NM 336	Hydrostatics and Stability of Marine Vehicles (Semester 1)	5	1
NM 337	Hydrostatics and Stability of Marine Vehicles (Semester 2)	5	2

Year 3 MEng / BEng Year Adviser Dr Q Xiao			
<i>Class</i>		<i>ECTS Credits</i>	<i>Semester</i>
NM 313	Hydrodynamics, Resistance and Propulsion	10	Both
NM 314	Marine Design	10	Both
21370	Marine Business and Financial Management	5	1
NM327	Professional Development	5	1
NM 312	Analysis & Design of Marine Structures 2	10	Both
NM 316	Marine Engineering Systems and Control	10	Both
NM 323	The Marine Environment	5	2

NA with Marine Engineering				NA with Ocean Engineering				NA with High Performance Vehicles			
<i>Class</i>		<i>ECTS Credits</i>	<i>Semester</i>	<i>Class</i>		<i>ECTS Credits</i>	<i>Semester</i>	<i>Class</i>		<i>ECTS Credits</i>	<i>Semester</i>
NM324	Principles and Application of Marine Machinery	5	2	NM325	Offshore Oil & Gas Production Systems	5	2	NM305	Yacht and Powercraft Design	5	2

<b>Special Classes (Subject to Approval)</b>			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM331	Marine Design (Semester 1)	5	1
NM332	Marine Design (Semester 2)	5	2
NM329	Analysis and Design of Marine Structures 2 (Semester 1)	5	1
NM330	Analysis and Design of Marine Structures 2 (Semester 2)	5	2
NM333	Marine Engineering Systems and Control (Semester 1)	5	1
NM334	Marine Engineering Systems and Control (Semester 2)	5	2
NM 339	Hydrodynamics, Resistance and Propulsion (Semester 2)	5	2

Year 4 MEng / BEng Year Adviser Dr Z Yuan			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM423	Seakeeping & Manoeuvring	10	1
NM402	Theory and Practice of Marine CFD	5	1
21452	Finite Element Analysis of Marine Structures	5	1

NA with Marine Engineering				NA with Ocean Engineering				NA with High Performance Vehicles			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>	<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>	<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM421	Marine Power & Electrical Systems	10	Both	NM404	Ship Structural Dynamics	5	1	NM438	High Performance Marine Structures + NM404	10	Both
NM415	Marine Refrigeration and Air Conditioning	5	1	NM435	Structural Reliability	5	2	NM439	High Performance Sailing Yachts half NM426	5	1
NM409	Marine Transmission and Propulsion Systems	5	2	NM436	Dynamics of Offshore Structures	10	Both	NM437	High Speed Ships	5	2
NM428	Marine Engineering Project	20	Both	NM430	Ocean Engineering Project	20	Both	NM440	HPMV Project	20	Both

<b>Year 5 MEng Year Adviser Prof M Atlar</b>			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM502	Group Design Project	20	Both
NM527	Advanced Marine Design	5	1
NM528	Maritime Safety and Risk	5	2
21520	Waterborne Transportation Systems	5	1
21551	Maritime Regulatory Framework	5	2

<b>NA with Marine Engineering</b>				<b>NA with Ocean Engineering</b>				<b>NA with High Performance Vehicles</b>			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>	<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>	<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM524	On-board Energy Man. & Environment Protection	5	Both	NM521	Risers & Mooring Lines	5	1	NM529	Ship Operability and Control	5	2
21525	Advanced Marine Engineering	5	2	NM513	Design & Cons, of FPSO's	5	2	NM530	Ship Powering and service	5	1

NM522	Renewable Marine Energy Systems	5	2	NM531	Marine Pipeline Integrity	5	2	NM522	Renewable Marine Energy Systems	5	2
21526	Marine Eng. Simulation & Modelling	5	1	NM522	Renewable Marine Energy Systems	5	2	21518	Computational Free Surface Hydrodynamics	5	2
NM523	Systems Availability and Maintenance	5	1	NM523	Systems Availability and Maintenance	5	1	NM523	Systems Availability and Maintenance	5	1

<b>Special Classes (Subject to Approval)</b>			
<b>Class</b>		<b>ECTS Credits</b>	<b>Semester</b>
NM215	On-board Energy Management And Environment Protection (Exchange Students)	2.5	1