



INTERNATIONAL MARITIME UNIVERSITY OF PANAMA
MARITIME CIVIL ENGINEERING FACULTY
SHIPBUILDING SCHOOL
ENGINEERING DEGREE IN SHIPBUILDING AND SHIP REPAIR
ENGINEERING DEGREE IN SHIPBUILDING AND SHIP REPAIR (2011)

FIRST YEAR

No.	CODE	SUMMER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	167	GEOGRAPHY OF PANAMA MARITIME AND THE WORLD	Scientific-Humanistic	2	0	2	N/A
2	421	MORAL AND ETHIC	Scientific-Humanistic	2	0	2	N/A
3	145	MARINE ECOLOGY	Scientific-Humanistic	2	2	3	N/A
4	111	ORAL AND WRITTEN COMMUNICATION	Scientific-Humanistic	2	0	2	N/A
5	423	ELECTIVE 2	Optional	2	2	3	N/A
TOTAL SUMMER				10	4	12	324 Balboas

No.	CODE	I SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	430	LINEAR ALGEBRA I	Scientific-Humanistic	3	2	4	N/A
2	616	INFINITESIMAL CALCULUS I	Scientific-Humanistic	3	2	4	N/A
3	418	PHYSICS I	Scientific-Humanistic	3	2	4	N/A
4	417	CHEMICALL I	Scientific-Humanistic	2	2	3	N/A
5	410	GRAPHIC EXPRESSION I	Scientific-Humanistic	2	2	3	N/A
6	422	INFORMATICS	Scientific-Humanistic	1	2	2	N/A
TOTAL I SEMESTER				14	12	20	540 Balboas

No.	CODE	II SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	433	LINEAR ALGEBRA II	Scientific-Humanistic	3	2	4	430
2	617	INFINITESIMAL CALCULUS II	Scientific-Humanistic	3	2	4	616
3	322	PHYSICS II	Scientific-Humanistic	3	2	4	418
4	419	CHEMICALL II	Scientific-Humanistic	2	2	3	417
5	414	GRAPHIC EXPRESSION II	Scientific-Humanistic	2	2	3	410
6	435	NAVAL ENGINEERING PRINCIPLES	Specialty	2	2	3	N/A
TOTAL II SEMESTER				15	12	21	567 Balboas



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SECOND YEAR

No.	CODE	SUMMER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	440	DESIGN AND INTERPRETATION OF PLANES	Scientific-Humanistic	2	2	3	414
2	441	SHIP PROPULSION SYSTEMS	Specialty	2	2	3	437
3	442	SHIP AUXILIARY SYSTEMS	Specialty	2	2	3	437
4	840	ELECTIVE 2	Optional	2	2	3	N/A
TOTAL VERANO				8	8	12	324 Balboas

No.	CODE	I SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	432	ORDINARY DIFFERENTIAL EQUATIONS	Scientific-Humanistic	3	2	4	433 - 617
2	204	SCIENCE ADN TECHNOLOGY OF MATERIALS	Specialty	3	2	4	435
3	74	FLUID MECHANICS	Scientific-Humanistic	3	2	4	322
4	434	ELECTROTECHNOLOGY APPLIED TO SHIP	Specialty	2	2	3	435
5	448	ENGINEERING MECHANICS	Scientific-Humanistic	2	2	3	418
TOTAL I SEMESTER				13	10	18	486 Balboas

No.	CODE	II SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	436	HIGHER MATHEMATICS FOR ENGINEERS	Scientific-Humanistic	3	2	4	432
2	214	ELASTICITY AND STRENGTH OF MATERIALS	Scientific-Humanistic	3	2	4	448
3	437	BASICS OF THEORY OF SHIP	Specialty	2	2	3	435
4	438	THERMODYNAMICS AND HEAT TRANSFER	Scientific-Humanistic	3	2	4	74
5	439	ELECTRONICS AND AUTOMATIC CONTROL APPLIED TO SHIP	Specialty	2	2	3	434
TOTAL II SEMESTER				13	10	18	486 Balboas



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THIRD YEAR

No.	CODE	SUMMER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	454	BASICS OF INDUSTRIAL SAFETY	Specialty	2	2	3	N/A
2	455	QUALITY, SAFETY AND ENVIRONMENTAL PROTECTION	Scientific-Humanistic	2	2	3	N/A
3	456	PROJECT MANAGEMENT	Specialty	2	2	3	N/A
4	841	ELECTIVE 3	Optional	2	2	3	N/A
TOTAL SUMMER				8	8	12	324 Balboas

No.	CODE	I SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	443	TECHNIQUES, CALCULATIONS AND INSPECTION OF WELDED JOINTS	Specialty	2	2	3	204
2	444	SHIP THEORY	Specialty	3	2	4	437
3	445	PROCESSES SHIPBUILDING AND NAVAL REPAIR	Specialty	3	2	4	437
4	446	ELECTRICAL MACHINERY AND SHIP SYSTEMS	Specialty	3	2	4	442
5	447	SHIP EQUIPMENT AND SERVICES	Specialty	2	2	3	442
TOTAL I SEMESTER				13	10	18	486 Balboas

No.	CODE	II SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	449	RESISTANCE AND SHIP PROPULSION	Specialty	3	2	4	441
2	450	DESIGN AND CALCULATION OF MARINE STRUCTURES	Specialty	3	2	4	440
3	451	DESIGN AND CALCULATION OF PROPULSION SYSTEMS	Specialty	3	2	4	441
4	452	SHIP ASSEMBLY	Specialty	2	2	3	447
5	453	SHIP HABILITATION	Specialty	2	2	3	445
TOTAL II SEMESTEE				13	10	18	486 Balboas



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FOURTH YEAR

No.	CODE	I SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	457	SPORTS BOATS	Specialty	2	2	3	444
2	458	FISHING VESSELS	Specialty	2	2	3	444
3	459	SHIPBUILDING COMPOSITE MATERIALS	Specialty	2	2	3	445
4	461	TRANSFORMATIONS AND SHIP REPAIRS	Specialty	4	2	5	445
5	462	HULL AND MACHINERY INSPECTION	Specialty	2	2	3	454
6	463	NAVAL TECHNICAL ENGLISH 1	Specialty	3	2	4	N/T
TOTAL I SEMESTER				15	12	21	567 Balboas

No.	CODE	II SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	464	PROJECT MANAGEMENT OF SHIPS	Specialty	3	2	4	456
2	465	MACHINE TECHNOLOGY	Specialty	2	2	3	461
3	466	NUMERICAL ANALYSIS OF STRUCTURES	Specialty	3	2	4	450
4	467	NAVAL MANAGEMENT COMPANIES	Administrative-Management	2	2	3	456
5	468	NAVAL TECHNICAL ENGLISH 2	Specialty	3	2	4	463
6	842	ELECTIVE 4	Optional	2	2	3	N/T
TOTAL II SEMESTER				15	12	21	567 Balboas

FIFTH YEAR

No.	CODE	I SEMESTER	FIELD TRAINING	T	P	Cr	PREREQUISITE
1	195	GRADUATE WORK	Specialty	6	12	12	684
TOTAL I SEMESTER				6	12	12	324 Balboas

TOTAL OF STUDY PLAN				143	120	203	5,481 Balboas
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TUITION COSTS BY SUMMER (3 summer) x30 balboas is the tuition costs	90 Balboas
TUITION COSTS BY SEMESTER PERIOD (8 semester) x60 balboas is the tuition costs	480 Balboas
TOTAL COSTS OF CARRIER BY CREDIT	5,481 Balboas
TOTAL COSTS OF DEGREE IN ENGINEERING IN SHIPBUILDING AND SHIP REPAIR	6,051 Balboas