

**NAUTICAL SCIENCE FACULTY  
 NAVIGATION SCHOOL  
 BACHELOR OF SCIENCE DEGREE IN NAUTICAL ENGINEERING IN  
 NAVIGATION**

**INTERNATIONAL MARITIME UNIVERSITY OF PANAMA  
 NAUTICAL SCIENCE FACULTY  
 NAVIGATION SCHOOL  
 BACHELOR OF SCIENCE DEGREE IN NAUTICAL ENGINEERING IN  
 NAVIGATION**

**FIRST YEAR  
 I SEMESTER**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PREREQUISITES
					T	P	TOTAL HOURS		
1		166	Mathematics I	Science- Humanities	3	2	5	4	N/L
2		410	Technical Drawing I	Humanities	1	2	3	2	N/L
3		417	Chemistry I	Science- Humanities	2	2	4	3	N/L
4		413	Introduction to Nautical Science I	Major	2	2	4	3	N/L
5		418	Physics I	Science- Humanities	3	2	5	4	N/L
6		411	Introduction to Naval Machinery I	Major	2	2	4	3	N/L
---			English	---	---	---	---	---	---
<b>SUBTOTAL</b>					<b>13</b>	<b>12</b>	<b>25</b>	<b>19</b>	

**II SEMESTER**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PREREQUISITES
					T	P	TOTAL HOURS		
7		112	Mathematics II	Science- Humanities	3	2	5	4	Mathematics I
8		414	Technical Drawing II	Humanities	1	2	3	2	Technical Drawing I
9		419	Chemistry II	Science- Humanities	2	2	4	3	Chemistry I
10		415	Introduction to Nautical Science II	Major	2	2	4	3	Introduction to Nautical Science I
11		322	Physics II	Science- Humanities	3	2	5	4	Physics I
12		412	Introduction to Naval Machinery II	Major	2	2	4	3	Introduction to Naval Machinery I
<b>SUBTOTAL</b>					<b>13</b>	<b>12</b>	<b>25</b>	<b>19</b>	
<b>TOTAL</b>					<b>26</b>	<b>24</b>	<b>50</b>	<b>38</b>	
---			English	---	---	---	---	---	----

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**SUMMER COURSE (1)**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
---		420	Maritime Seminars I	Major	---	---	---	---	----
13		167	Panama and the World Maritime Geography	Science-Humanities	2	0	2	2	N/L
14		421	Moral and Ethic	Science-Humanities	2	0	2	2	N/L
15		145	Maritime Ecology	Science-Humanities	2	2	4	3	N/L
16		111	Oral and Written Communication	Science-Humanities	2	0	2	2	N/L
17		422	Applied Information Technology	Science-Humanities	1	2	3	2	N/L
18		423	Optative Subject	----	2	2	4	3	N/L
<b>SUBTOTAL</b>					<b>11</b>	<b>6</b>	<b>17</b>	<b>14</b>	
<b>TOTAL</b>					<b>37</b>	<b>30</b>	<b>67</b>	<b>52</b>	

**SECOND YEAR  
 III SEMESTER**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
19		130	Mathematics III	Science-Humanities	3	2	5	4	Mathematics II
20		140	Naval Construction I	Major	2	2	4	3	Introduction to Nautical Science II
21		426	Maritime Law I	Major	2	2	4	3	N/L
22		535	Electrotechnology and Marine Electronic Technology I	Major	2	2	4	3	Physics II
23		425	Ships Deck Equipments	Major	2	2	4	3	N/L
24		148	Navigation I	Major	2	2	4	3	Introduction to Nautical Science II
<b>SUBTOTAL</b>					<b>13</b>	<b>12</b>	<b>25</b>	<b>19</b>	
<b>TOTAL</b>					<b>50</b>	<b>42</b>	<b>92</b>	<b>71</b>	
---			<b>English</b>	---	---	---	---	---	---

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**IV SEMESTER**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
25		436	Advands Mathematics for Engineers	Science-Humanities	3	2	5	4	Mathematics III
26		1	Naval Construction II	Major	2	2	4	3	Naval Construction I
27		501	Maritime Law II	Major	2	2	4	3	Maritime Law I
28		514	Electrotechnology and Marine Electronic Technology II	Major	2	2	4	3	Electrotechnology and Marine Electronic Technology I
29		7	Astronomy I	Major	3	2	4	3	N/L
30		6	Navigation II	Major	2	2	4	3	Navigation I
<b>SUBTOTAL</b>					<b>14</b>	<b>12</b>	<b>26</b>	<b>20</b>	
<b>TOTAL</b>					<b>64</b>	<b>54</b>	<b>118</b>	<b>91</b>	
---			<b>English</b>	---	---	---	---	---	---

**SUMMER COURSE (2)**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
---		172	Maritime Seminars II	Major	---	---	---	---	----
31		32	Basic Statistic	Science-Humanities	2	2	4	3	N/L
32		274	Basic Management	Administration-Management	2	2	4	3	N/L
33		78	General Accounting	Administration-Management	2	2	4	3	N/L
34		423	Optative Subject	----	2	2	4	3	N/L
<b>SUBTOTAL</b>					<b>8</b>	<b>8</b>	<b>16</b>	<b>12</b>	
<b>TOTAL</b>					<b>72</b>	<b>62</b>	<b>134</b>	<b>103</b>	

**THIRD YEAR  
V SEMESTER**

Nº	ABREV	CODE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
35		536	Collision Regulations I	Major	2	2	4	3	N/L
36		16	Astronomy II	Major	3	2	5	4	Astronomy I
37		12	Meteorology I	Major	2	2	4	3	N/L
38		13	Navigation III	Major	2	2	4	3	Navigation II
39		307	Ship Theory I	Major	2	2	4	3	Naval Construction II
40		487	Maritime Safety I	Major	2	2	4	3	N/L
<b>SUBTOTAL</b>					<b>13</b>	<b>12</b>	<b>25</b>	<b>19</b>	

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---	English	TOTAL	85	74	159	122	---
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**VI SEMESTER**

Nº	ABREV	CÓDE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
41		537	Collision Regulations II	Major	2	2	4	3	Signal and Regulation I
42		493	Ships Theory II	Major	2	2	4	3	Ship Theory I
43		496	Maritime Safety II	Major	2	2	4	3	Maritime Safety I
44		22	Navigation IV	Major	2	2	4	3	Navigation III
45		538	Meteorology II	Major	2	2	4	3	Meteorology I
46		311	Bridge Watchkeeping I	Major	3	2	5	4	N/L
<b>SUBTOTAL</b>					<b>13</b>	<b>12</b>	<b>25</b>	<b>19</b>	
<b>TOTAL</b>					<b>98</b>	<b>86</b>	<b>184</b>	<b>141</b>	
---	English			---	---	---	---	---	---

**SUMMER COURSE (3)**

Nº	ABREV	CÓDE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
---		173	Maritime Seminars III	Major	---	---	---	---	N/L
---		178	Maritime Seminars IV	Major	---	---	---	---	N/L
47		523	Maritime Employment Health	Major	2	2	4	3	N/L
48		540	Introduction to Engine Watchkeeping	Major	2	2	4	3	N/L
49		423	Optative Subject	----	2	2	4	3	N/T
<b>SUBTOTAL</b>					<b>6</b>	<b>6</b>	<b>12</b>	<b>9</b>	
<b>TOTAL</b>					<b>104</b>	<b>92</b>	<b>196</b>	<b>150</b>	

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 FOUR YEAR  
 VII SEMESTER**

Nº	ABREV	CÓDE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
50		541	Maritime Safety III	Major	2	2	4	3	Maritime Safety II
51		542	Marine Cargo Operations I	Major	2	2	4	3	Ship Theory II
52		543	Ship Maneuvering I	Major	2	2	4	3	Reglamentos y Señales II
53		544	Ship Theory III	Major	2	2	4	3	Ship Theory II
54		545	Maritime Economy	Major	2	2	4	3	N/L
55		546	Bridge Watchkeeping II	Major	3	2	5	4	Bridge Watchkeeping I
56		151	Technical Maritime English I	Major	3	2	5	4	N/L
<b>SUBTOTAL</b>					<b>16</b>	<b>14</b>	<b>30</b>	<b>23</b>	
<b>TOTAL</b>					<b>120</b>	<b>106</b>	<b>226</b>	<b>173</b>	

**VIII SEMESTER**

Nº	ABREV	CÓDE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
		547	Maritime Safety IV	Major	2	2	4	3	Maritime Safety III
		548	Marine Cargo Operations II	Major	2	2	4	3	Marine Cargo Operations I
		549	Ship Maneuvering II	Major	2	2	4	3	Ship Maneuvering I
		551	Maritime Communications	Major	3	2	5	4	N/L
		552	Marine Electronic to Apply the Ship	Major	2	2	4	3	N/L

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539	Maritime Law III	Major	2	2	4	3	Maritime law II
564	Technical Maritime English	Major	3	2	5	4	Technical Maritime English I

II

<b>SUBTOTAL</b>	<b>16</b>	<b>14</b>	<b>30</b>	<b>23</b>
<b>TOTAL</b>	<b>136</b>	<b>120</b>	<b>256</b>	<b>196</b>

**FIFTH YEAR  
 IX SEMESTRE**

Nº	ABREV	CÓDE	SUBJECT	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
65		669	Sea Project	Major	2	8	10	6	To approved all the subjects
<b>SUBTOTAL</b>					<b>2</b>	<b>8</b>	<b>10</b>	<b>6</b>	
<b>TOTAL</b>					<b>138</b>	<b>128</b>	<b>266</b>	<b>202</b>	

**TOTAL OF THE BACHEROL OF  
 SCIENCE IN NAUTICAL  
 ENGINEERING IN NAVIGATION**

**THEORICAL  
 HOURS  
 138**

**PRACTICAL  
 HOURS  
 128**

**TOTAL OF  
 HOURS  
 266**

**TOTAL OF CREDITS  
 202**

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**OPTATIVES SUBJECTS**

Nº	ABREV	CÓDE	SUBJECTS	FIELD TO STUDY	HOURS			CR	PRERREQUISITES
					T	P	TOTAL HOURS		
			Navigation of Small Vessel	---	2	2	4	3	N/L
			Complementary Course to Applied Information Technology	---	2	2	4	3	N/L
			Shipping Lanes	---	2	2	4	3	N/L
			Optatives Subjects	---	2	2	4	3	N/L
			Research Methodology	---	2	2	4	3	N/L
			Introduction to Industrial Safety	---	2	2	4	3	N/L
			Enterprice Development	---	2	2	4	3	N/L
			Project Management	---	2	2	4	3	N/L
			Chartering	---	2	2	4	3	N/L
			Human Resource Management	---	2	2	4	3	N/L