



大连海事大学  
DALIAN MARITIME UNIVERSITY

# 本科专业培养计划

## Undergraduate Program for Nautical Science Major

[2022 级适用]

★航海技术专业（081803K）

大连海事大学教务处

2022 年 9 月

# 航海技术（普通班）专业本科培养计划（2022）

## Undergraduate Program for Nautical Science Major

### 一、专业简介

#### I. Program Profile

大连海事大学航海技术专业在国内外享有较高的知名度，1992年入选交通部“八五”首批重点建设学科专业，2006年入选辽宁省高等学校示范专业，2007年入选国家高等学校特色专业建设点，2011年入选辽宁省高等学校综合改革试点专业。航海技术专业本科毕业生具有较强的实践动手能力、英语运用能力、业务能力和良好的团队协作精神，深受港航企事业单位的好评。航海技术专业毕业生就业主要面向各航运公司从事远洋运输工作，部分毕业生到海事局、船级社、引航站或航海类院校等港航企事业单位从事相关工作。

The nautical science in Navigation College, DMU, enjoys a high reputation and popularity both at home and abroad. In 1992, it was selected by Ministry of Transport as one of the National Key-building Disciplines in State's Eighth Five-Year Plan. This Program was rated as one of the demonstration disciplines of tertiary education in Liaoning Province in 2006, selected as one of the Featuring Specialties under national tertiary education construction in 2007, and appointed as one of the trial units for comprehensive reformation in tertiary education of Liaoning Province in 2011. In the nautical science, the students will be trained into high quality and competent mariners. They are professionals with high English level and team-work spirits, and enjoy high reputation in all shipping industries, including shipping companies, port management companies, maritime institutions, maritime safety administrations, classification societies, pilot stations, and maritime colleges and universities.

### 二、培养目标

#### II. Program Objectives

本专业培养具备良好的人文素养，扎实的自然科学基础知识和航海技术基本理论，系统掌握船舶航行、货物积载与装卸、船舶作业管理和人员管理、船舶通信等方面的知识和技能，综合素质好、安全与环保意识强、具有国际竞争能力的高级航海人才。毕业生可从事远洋船舶驾驶、船舶引航、管理、航海教育等工作。

The program cultivates high-level marine talents who should possess good comprehensive quality, strong consciousness of safety and environment protection, and competitiveness in international shipping industries, with good humanistic accomplishments, as well as:

- ✓ a solid knowledge-base in natural science and theories of nautical science;
- ✓ knowledge and skills in the ship navigation, cargo stowage and handling;
- ✓ ship operation management;
- ✓ human resource management;
- ✓ and shipborne communication.

Graduates of the program are projected to engage in the practices of ocean-going ship handling, ship pilotage, management, as well as maritime education.

### 三、毕业要求

#### III. Graduation Requirements

| 毕业要求   | 毕业要求指标点分解  |
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| <p><b>毕业要求 1</b></p> <p><b>Graduation Requirement 1</b></p> <p><b>工程知识:</b> 具备将数学、自然科学、工程基础和专业<br/>知识应用于航海技术领域复杂工程问题的能力。</p> <p><b>Engineering knowledge:</b> the ability to apply<br/>mathematics, natural sciences, engineering fundamentals<br/>and expertise to complex engineering issues in the field<br/>of nautical science.</p>   | <p>1-1 能够将数学、自然科学、工程基础和专业<br/>知识运用到复杂航海技术问题的恰当表述中</p> <p>1-1 to use the mathematics, natural sciences,<br/>engineering fundamentals and expertise to the<br/>appropriate statements of complex nautical science<br/>issues</p> <p>1-2 能够将工程和专业<br/>知识用于航海技术问题的分析、设计、计算、模拟<br/>与改进</p> <p>1-2 can be used for engineering and professional<br/>knowledge of nautical science problems in the<br/>analysis, design, calculation, simulation and<br/>improvement</p> <p>1-3 熟悉航海技术行业特点, 具备较好的工程思维<br/>和实践技能, 并可应用于解决复杂工程问题。</p> <p>1-3 to familiar with the characteristics of nautical<br/>science field, with good engineering thinking and<br/>practical skills, and can be applied to solve complex<br/>engineering problems.</p> |
| <p><b>毕业要求 2</b></p> <p><b>Graduation Requirement 2</b></p> <p><b>问题分析:</b> 能够应用数学、自然科学和工程科学<br/>的基本原理, 识别、表达、并通过文献研究分析复<br/>杂航海技术问题, 以获得有效结论。</p> <p><b>Problem Analysis:</b> The basic principles of<br/>mathematics, natural sciences and engineering<br/>sciences can be applied to identify, express, and<br/>analyze complex nautical science problems through<br/>literature research to obtain effective conclusions.</p>  | <p>2-1 能够识别和判断复杂航海技术问题的核<br/>心特征与关键环节</p> <p>2-1 to identify and determine the core of complex<br/>nautical science problems and key links</p> <p>2-2 能够运用基本原理和文献资料辅助正确表<br/>达解决复杂航海技术问题的技术方案, 证实解决<br/>方案的合理性。</p> <p>2-2 can apply basic principles and document<br/>literature to express the technical route to solve<br/>complex nautical science problems, and prove the<br/>rationality of the technical route.</p>   |
| <p><b>毕业要求 3</b></p> <p><b>Graduation Requirement 3</b></p> <p><b>设计/开发解决方案:</b> 能够设计针对复杂航海<br/>技术问题的解决方案, 设计满足特定需求的工作流<br/>程, 并能够在设计环节中体现创新意识, 考虑社会<br/>、健康、安全、法律、文化以及环境等因素。</p> <p><b>Design / develop solutions:</b> Design solutions<br/>for complex nautical science problems, design<br/>processes that meet specific needs, and be able to<br/>embody innovation awareness in the design process,<br/>taking into account social, health, safety, and law,<br/>culture and environment and other factors.</p> | <p>3-1 能够进行复杂工程问题的针对性调研, 确<br/>定设计目标</p> <p>3-1 be able to carry out complex engineering<br/>problems targeted research to determine the design<br/>goals</p> <p>3-2 能够在环境、安全、法律、社会、经济等<br/>现实约束条件下, 依照相关规则选取工艺单元、系<br/>统或流程并进行优选, 体现创新意识</p> <p>3-2 can be in the environment, security, legal,<br/>social, economic and other realistic constraints, in<br/>accordance with the relevant rules to design working<br/>processes that meetspecific needs and make<br/>optimization, to reflect the sense of innovation</p> <p>3-3 能够对解决方案进行合理计算、评价, 并<br/>用图纸、报告等形式呈现</p> <p>3-3 can calculate and evaluate the solution, can<br/>use drawings, reports and other forms to show<br/>results.</p>                                   |
| <p><b>毕业要求 4</b></p> <p><b>Graduation Requirement 4</b></p> <p><b>研究:</b> 能够基于科学原理并采用科学方法对<br/>复杂航海</p>  | <p>4-1 针对工程问题的技术验证, 能够制定合<br/>理的研究方案</p> <p>4-1 for technical problems of engineering<br/>verification, to develop a reasonable research<br/>program.</p>  |

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| <p>技术问题进行研究，并能得到合理有效的结论</p> <p><b>Research:</b> It is possible to study complex nautical science problems based on scientific principles and scientific methods, and obtain a rational and effective result.</p>   | <p>4-2 能够基于专业理论，根据对象特征，选择研究路线，设计可行的实验实践方案，获取合理有效的结论</p> <p>4-2 can be based on professional theory, according to the characteristics of the object, select the research route, the design of feasible experimental program, obtain rational and effective results.</p>  |
| <p><b>毕业要求 5</b></p> <p><b>Graduation Requirement5</b></p> <p><b>使用现代工具:</b> 能够针对复杂航海技术问题，选择与使用恰当的技术、资源、现代工程工具和信息技术工具，并能够理解其局限性</p> <p><b>The use of modern tools:</b> the ability to select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex nautical science issues, and the ability to understand its limitations</p>   | <p>5-1 能够较为熟练运用现代工程工具和信息技术工具，表达复杂航海技术问题的解决方案，能理解其局限性</p> <p>5-1 can use modern engineering tools and information technology tools to express complex the solution of nautical science problems, and understand its limitations</p> <p>5-2 能够运用文献检索工具，获取复杂航海技术问题的相关信息与技术最新进展</p> <p>5-2 can use literature search tools to obtain relevant information and latest technology development in complex nautical science problems.</p>   |
| <p><b>毕业要求 6</b></p> <p><b>Graduation Requirement6</b></p> <p><b>工程与社会:</b> 能够基于工程相关背景知识进行合理分析，评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响，并理解应承担的责任</p> <p><b>Engineering and Society:</b> The ability to conduct a rational analysis based on engineering-related background knowledge, evaluate the impact of professional engineering practices and complex engineering problem solutions on society, health, safety, law and culture, and understand the responsibilities that should be borne</p> | <p>6-1 具有工程实习和社会实践的经历</p> <p>6-1 the experience of engineering practice and social practice</p> <p>6-2 能够识别和分析航海技术实践和复杂工程问题解决方案对社会、健康、安全、文化的影响</p> <p>6-2 the ability to identify and analyze the impact of nautical science practices and complex engineering problem solutions on social, health, safety and culture</p> <p>6-3 熟悉复杂航海技术问题的解决中应遵循的法律法规和职业道德规范，明确承担的责任和义务。</p> <p>6-3 familiar with the complex nautical science problems should be resolved in accordance with the laws and regulations and professional ethics, clearly assume responsibility and obligations.</p> |
| <p><b>毕业要求 7</b></p> <p><b>Graduation Requirement7</b></p> <p><b>环境和可持续发展:</b> 能够理解和评价针对复杂航海技术问题的工程实践对环境、社会可持续发展的影响</p> <p><b>Environment and Sustainable Development:</b> The ability to understand and evaluate the impact of engineering practices on complex nautical science issues on environmental and social sustainable development</p>   | <p>7-1 理解环境保护和社会可持续发展的内涵和意义，能够正确评价工程实践活动对环境的影响</p> <p>7-1 understand the environmental protection and social sustainable development of the connotation and significance, can correctly evaluate the engineering practice activities on the environment</p> <p>7-2 能够在复杂工程问题解决方案中体现对节能和环境友好的要求，客观评价解决方案对社会可持续发展的影响</p> <p>7-2 to reflect the energy-saving and environment-friendly requirements in the complex engineering problem solution , objectively evaluate the effects of solutions on social sustainable development.</p>   |

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| <p><b>毕业要求 8</b></p> <p><b>Graduation Requirement8</b></p> <p><b>职业规范:</b> 具有人文社会科学素养、社会责任感,能够在工程实践中理解并遵守工程职业道德和规范,履行责任</p> <p><b>Professional norms:</b> Have humanities and social science literacy, social responsibility, understand and comply with engineering ethics and norms in engineering practice, to fulfill responsibilities</p>   | <p>8-1 具有正确的人生观、价值观和世界观,了解国情,维护国家利益,具有推动民族复兴和社会进步的责任感</p> <p>8-1 have the correct outlook on life, values and world outlook, understand the national conditions, safeguard national interests, with the promotion of national rejuvenation and social progress of the sense of responsibility</p> <p>8-2 具有人文社会科学素养,具备履行社会职责的身心条件</p> <p>8-2 have the humanities and social science literacy, have the physical and psychological conditions to fulfill social responsibilities</p> <p>8-3 理解航海技术伦理的核心理念,在工程实践中自觉遵守职业道德和规范,具有法律意识</p> <p>8-3 understand the core concept of nautical science ethics, consciously abide by professional ethics and norms in engineering practice, with legal awareness.</p> |
| <p><b>毕业要求 9</b></p> <p><b>Graduation Requirement9</b></p> <p><b>个人和团队:</b> 能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色</p> <p><b>Individuals and Teams:</b> The ability to take on individual, team members, and responsible roles in a multidisciplinary team</p>   | <p>9-1 具有团队协作意识,具有一定的组织管理能力和较强的自我控制能力、人际交往能力</p> <p>9-1 have a sense of teamwork, with a certain degree of organizational management and strong self-control, interpersonal skills</p> <p>9-2 能够独立完成团队分配的工作,并与其他团队成员有效沟通,共享信息</p> <p>9-2 be able to independently complete the work of team distribution, and other members of the effective communication and sharing of information</p> <p>9-3 了解与本专业相关学科等领域的技术衔接,了解作为团队负责人应具备的素质与能力</p> <p>9-3 understand related disciplines and other areas of technical convergence, Understand the qualities and abilities of a team leader.</p>  |
| <p><b>毕业要求 10</b></p> <p><b>Graduation Requirement10</b></p> <p><b>沟通:</b> 具备一定的国际视野,能够有效在跨文化背景下进行沟通和交流。能够就复杂工程问题与业界同行及社会公众进行沟通和交流。</p> <p><b>Communication:</b>Have a certain international perspective, to communicate and discuss in cross-cultural background, and theability to communicate and discuss effectively with industry peers and the public on complex engineering issues.</p> | <p>10-1 能够使用英语,在跨文化背景下进行有效沟通交流</p> <p>10-1 be able to use English to communicate in the context of cross-cultural</p> <p>10-2 了解航海技术专业的国际发展趋势、研究热点,能够通过口头、书面、图表等方式表达思想,与业界同行及社会公众进行沟通和交流。通过国家主管机关规定的考试和评估,具备规定的海上资历,可取得海洋船舶驾驶员相关的适任证书。</p> <p>10-2 to understand the international development trends, research hot spots of nautical science, and express ideas through oral, written, charts, etc., and communicate and discuss effectively with industry peers and the public, pass the required test and assessment by the national authority, possess required sea service, and obtain the relevant competency certificate for officers working on ocean-going ships.</p>                             |

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| <p><b>毕业要求 11</b></p> <p><b>Graduation Requirement11</b></p> <p><b>项目管理:</b> 理解工程管理原理与决策方法, 并能在实践中予以应用</p> <p><b>Project management:</b> To understand the principles of project management and decision-making methods, and can be applied in practice.</p>              | <p>11-1 能够对行业项目的工艺路线、工艺方案进行基本技术经济分析和比较</p> <p>11-1 do technical and economic analysis and have comparison of the technological route and process plan.</p> <p>11-2 了解行业项目的实施过程, 掌握工程项目运营的相关技术与管理知识</p> <p>11-2 understand the project implementation process, master the related technology and management knowledge of engineering project operation.</p>  |
| <p><b>毕业要求 12</b></p> <p><b>Graduation Requirement12</b></p> <p><b>终身学习:</b> 具有自主学习和终身学习的意识, 有不断学习和适应发展的能力</p> <p><b>Lifelong learning:</b> with independent learning and lifelong learning awareness, have the ability to continue to learn and adapt to development</p> | <p>12-1 具有自主学习和终身学习意识, 具备终身学习的知识基础, 掌握自主学习的方法, 了解拓展知识和能力的途径</p> <p>12-1 with independent learning and lifelong learning awareness, with a lifelong learning knowledge base, master the way of self-learning, understanding of ways to expand knowledge and ability</p> <p>12-2 能针对个人或职业发展需求, 采用合适的方法, 自主学习, 适应航海技术领域的发展</p> <p>12-2 for personal or career development needs, to use appropriate methods to go on self-learning and adapt to the development of nautical science field.</p> |

#### 四、特色课程

##### IV. Feature Courses

船艺训练、航海学、船舶结构与设备、船舶操纵、船舶避碰与值班、船舶货运、航海气象学与海洋学、船舶安全管理、航海仪器、船舶导航雷达、GMDSS 通信设备与业务、驾驶台资源管理

Seamanship Training, Marine Navigation, Ship Construction and Equipment, Ship Handling, Ship Collision Avoidance and Watch Keeping, Marine Cargo Operations, Marine meteorology and Oceanography, Ship Safety Management, Nautical Instruments, Shipborne Navigation Radar, GMDSS Communication Equipment and Services, Bridge Resources Management

#### 五、学制与学位

##### V. Duration and Degree

学制: 4 年

Program Duration: 4 years

授予学位: 工学学士学位

Degree conferred: Bachelor of Engineering

#### 六、学分要求

##### VI. Credit Requirement

188 学分

188 Credits

七、课程体系与毕业培养要求的对应关系矩阵

VII. Corresponding Relation of Curriculum and Program Requirements

| 序号 | 毕业要求指标点<br>课程名称          | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|--------------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                          | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 1  | 专业导论 (航海技术)              | M     |     |     |       |     |       |     |     |       |     |       | M   |       |     | L   |       | M   |       | L   |     |       |     | H   |        |      |        |      | H      |      |
| 2  | 入学教育                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | M   | M     |     | H   |        |      | M      | H    |        |      |
| 3  | 形势与政策                    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 4  | 军事理论                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 5  | 军事训练                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 6  | 体 育                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 7  | 马克思主义基本原理                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 8  | 中国近现代史纲要                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 9  | 毛泽东思想和中国特色<br>社会主义理论体系概论 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 10 | 习近平新时代中国特色社会主义思想概论       |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 11 | 思想道德修养与<br>法律基础          |       |     |     |       |     |       |     |     |       |     |       | M   | M     | M   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 12 | 高等数学                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 13 | 线性代数                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 14 | 大学物理                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 15 | 大学物理实验                   |       |     |     | M     | M   |       |     | H   | H     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 16 | 大学英语(含口语、听说)             |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 17 | 航海英语阅读                   |       |     |     |       |     |       |     |     |       |     | H     |     |       |     |     |       | H   |       | H   |     |       |     | H   | H      |      |        | M    | M      |      |
| 18 | 大学计算机基础                  |       |     |     |       |     |       |     |     |       | H   | H     |     |       |     |     |       |     |       |     |     |       |     | M   | M      |      |        |      |        |      |
| 19 | 计算机程序设计基础 (C             |       |     |     |       |     |       |     |     |       | H   | H     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |

## 航海技术

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
|    | 语言)             |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 20 | 电工学 1           | H     |     |     |       |     | M     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 21 | 机械制图            |       | H   |     |       |     |       | M   | M   |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 22 | 航海力学            |       | H   |     |       |     | M     |     |     |       | L   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 23 | (船舶)无线电技术基础     | H     | M   |     |       |     | M     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 24 | 大学化学 (海上)       |       | H   |     |       |     | M     | M   | M   |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 25 | 逻辑学             |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 26 | 航海专业数学          | H     | M   | H   |       | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | M      |      |        |      |        |      |
| 27 | 船舶原理            | H     | H   | H   |       | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      | L      |      |
| 28 | 远洋业务与海商法        |       |     |     |       |     | L     |     |     |       |     |       | M   | M     | M   |     |       |     |       |     | M   |       |     | M   |        |      |        | L    |        |      |
| 29 | 航海气象学与海洋学       | L     |     |     | M     |     |       |     |     |       |     |       |     | M     |     | M   | M     | L   |       |     |     |       |     |     |        | H    |        |      | L      |      |
| 30 | 船舶货运            | H     | H   | M   |       | H   |       |     |     | M     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        | M    |        |      |        |      |
| 31 | 轮机概论            | L     |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       | M   |     | H      |      |        |      |        | L    |
| 32 | 航海英语会话与评估       |       |     |     |       |     |       |     |     |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     |     | H      | H    |        |      |        |      |
| 33 | 船艺训练            |       |     | H   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     |     |       | M   | M   |        |      | M      |      |        |      |
| 34 | 船舶结构与设备         |       | H   | H   | H     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        | H    |        | H    |        |      |
| 35 | 航海学             | M     | M   | H   | H     | M   | M     | L   | L   | L     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | H      |      |        |      |
| 36 | 电子海图显示与信息系<br>统 |       | H   | H   | H     |     |       | M   |     |       | M   | M     |     |       |     |     |       |     |       |     | L   |       |     | M   |        | M    |        |      | L      |      |
| 37 | 船舶避碰与值班         |       | H   | H   | H     |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     |     |       |     |     |        |      | H      |      |        |      |
| 38 | 船舶操纵            |       | H   | H   | H     |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     |     |       |     |     |        |      | H      |      |        |      |
| 39 | 船舶导航雷达          | M     |     |     |       |     |       |     |     |       | M   | M     |     |       |     | M   | M     | L   |       |     |     |       | M   |     |        | H    |        |      |        | M    |

大连海事大学本科专业培养计划

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 40 | 船舶安全管理          |       |     |     |       |     |       | M   |     |       |     |       |     | L     | M   | M   | H     | M   | M     | H   | H   | M     |     |     |        | H    |        |      |        |      |
| 41 | 航海仪器            | M     | H   |     |       |     |       |     |     | H     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        | H    |        |      |        |      |
| 42 | GMDSS 通信设备与业务   |       |     | H   |       |     |       | M   |     |       | M   | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 43 | GMDSS 通信英语      |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | H      | H    |        |      |        |      |
| 44 | 海事调查与案例分析       | H     |     |     |       | H   |       |     |     |       |     |       |     |       | H   |     |       |     |       | H   |     |       |     |     |        |      |        |      |        |      |
| 45 | 船员心理学           |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | L   |       |     |     |        |      |        |      |        |      |
| 46 | 海洋船舶气象定线        | M     |     |     |       | M   |       |     |     |       |     |       |     |       |     | M   |       |     |       |     |     |       |     |     |        | L    |        |      | L      |      |
| 48 | 概率论与数理统计        | M     | M   | M   | H     | H   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 49 | 船舶建模与控制         | M     | M   |     |       |     |       | H   |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    | H      |      |
| 50 | 特种货物运输          |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 51 | LNG 船货物运输       |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 52 | 航海涉外礼仪          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     |     | L   |       |     |     | H      |      |        |      |        |      |
| 53 | 国际海事发展动态        |       |     |     |       | M   |       |     |     |       |     |       |     |       |     |     | L     | L   |       |     |     |       |     |     |        |      |        |      |        |      |
| 54 | 海事管理概论          | M     | M   | M   |       |     |       |     |     |       | M   |       |     |       |     |     |       |     |       | M   |     |       |     |     |        |      |        |      | L      |      |
| 55 | 宏观经济学           |       |     |     |       |     |       | L   |     |       |     |       |     |       |     |     |       |     |       |     |     |       | M   |     |        | M    |        |      | M      |      |
| 56 | 国家安全教育(航海)      |       |     |     |       |     |       |     |     |       |     |       | H   | H     | H   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 57 | 金融学             |       |     |     |       |     |       | L   |     |       |     |       |     |       |     |     |       |     |       |     |     |       | M   |     |        | M    |        |      | M      |      |
| 58 | 国际商务            |       |     |     |       |     |       | L   |     |       |     |       |     |       |     |     |       |     |       |     |     |       | M   |     |        | M    |        |      | M      |      |
| 59 | 法理学             |       |     |     |       |     |       | L   |     |       |     |       |     |       |     | M   |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |
| 60 | 海洋法             |       |     |     |       |     |       | L   |     |       |     |       |     |       |     | M   |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |
| 61 | 实用写作            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | H      | H    |        |      |        |      |

## 航海技术

| 序号 | 毕业要求指标点        |   | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |  |
|----|----------------|---|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|--|
|    | 课程名称           |   | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |  |
| 62 | 海上行政执法         |   |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |  |
| 63 | 海域使用管理法        |   |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |  |
| 64 | 智能航海导论         | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |
| 65 | 物联网与船联网技术      | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |
| 66 | 航运大数据技术与应用     | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |
| 67 | 智能船案基支持系统与远程控制 | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |
| 68 | 船舶认识实习         |   |       | M   | L   |       |     |       |     |     |       |     |       | H   | L     | L   | L   | M     |     |       | M   | M   |       |     |     | H      | L    |        |      |        |      |  |
| 69 | 精通救生艇筏和救助艇     |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |
| 70 | 精通急救           |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |
| 71 | 熟悉与基本安全        |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |
| 72 | 高级消防           |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |
| 73 | 船舶保安           |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |
| 74 | 货物积载与系固        |   |       | M   |     |       |     |       | M   |     |       |     |       |     |       |     |     |       |     |       | M   | M   |       |     | H   | H      |      |        |      |        |      |  |
| 75 | 航线设计           |   | M     | H   |     |       |     | M     | M   |     |       |     |       |     |       |     | M   | M     |     |       |     | M   | M     |     |     | H      | M    | H      |      |        |      |  |
| 76 | 驾驶室资源管理        |   |       | H   |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       | H   | H   |       |     | H   | H      | H    |        |      |        |      |  |
| 77 | GMDSS 设备操作     |   |       | H   |     |       |     |       | M   |     |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |  |
| 78 | 雷达操作与应用        | M |       |     | H   |       |     |       | M   |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |  |
| 79 | 英语阅读           |   |       |     |     |       |     |       |     | M   | M     | L   | H     |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        | M    |  |
| 80 | 中国海员史          |   |       |     |     |       |     |       |     |     |       |     |       |     |       |     | M   |       |     | H     |     |     |       | L   |     |        |      |        |      | M      |      |  |
| 81 | 公益劳动           |   |       |     |     |       |     |       |     |     |       |     |       | H   |       |     | M   |       | M   | M     |     | M   | L     |     |     |        |      |        |      |        |      |  |
| 82 | 大学生健康教育        |   |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       | H   | H   | H     | H   | H   |        |      |        |      |        |      |  |

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 83 | 职业生涯规划          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      | H      | H    |
| 84 | 就业指导            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 86 | 毕业实习及毕业论文       |       |     |     |       |     | H     | H   | H   | H     | H   |       | H   |       |     |     | M     | M   |       |     |     |       |     |     |        |      | H      |      | H      | H    |

注：关联度强的用“H”表示，关联度中等的用“M”表示，关联度弱的用“L”表示。

Note: The degree of correlation should be marked as "H"(high), "M"(medium) and "L"(low).

## 八、教学计划进度表

参见表1~表6

Curriculum Structure

Refer to Table1~Table6.

表1: 航海技术(普通班)课程设置及学分安排

Table1: Nautical Science[General Class] Curriculum and Credits

| 课程分类<br>Course<br>Categories | 理论课程 (151 学分)<br>In-class Teaching Courses (151 credits) |                               |                               |                               | 集中实践环节 (32 学分)<br>Centralized Practicum<br>(32 credits) |                               | 讲座 (5 学分)<br>Lectures and Seminars<br>(5 credits) |                               | 总计  |
|------------------------------|--|-------------------------------|-------------------------------|-------------------------------|---|-------------------------------|---|-------------------------------|-----|
|                              | 必修<br>Compulsory   | 限选<br>Restrictive<br>Optional | 任选<br>Free Optional           |                               | 必修<br>Compulsory  | 限选<br>Restrictive<br>Optional | 必修<br>Compulsory                                  | 限选<br>Restrictive<br>Optional |     |
| 学分<br>Credits                | 129  | 10                            | 12                            |                               | 32  | 0                             | 5   | 0                             | 188 |
| 占理论课学分百分比%<br>Percentage     | 84.87  | 6.58                          | 7.89                          |                               |   |                               |   |                               |     |
| 实验上机环节学分                     | 独立实验<br>上机学分   | 课内实验<br>上机学分                  | 限选必<br>选课<br>独立实<br>验上机<br>学分 | 限选必<br>选课<br>课内实<br>验上机<br>学分 |   |                               |   |                               |     |
|                              | 6  | 12.38                         | 0                             | 0                             | 26.66   |                               |   |                               |     |
| 实践环节占学分百分比%                  | 26.66  |                               |                               |                               |   |                               |   |                               |     |

注: 实践环节学分占总学分百分比=【(课内实践+课内实验+课内上机)学时/16+(独立实验+独立上机)学时/24+集中实践性教学学分】/总学分\*100%

Note: Percentage of Practice = 【(In-class practice+ In-class Experiment + In-class Operation) Credits/16+ (Independent Experiment+ Independent Operation) Credits/24+Centralizing Practical Teaching Credits】/Total Credits\*100%

表2: 航海技术(普通班)必修课程设置及进程

Table2: Nautical Science[General Class] Curriculum of Compulsory Courses

| 课程性质<br>Course<br>Nature      | 课程类别<br>Course<br>Categories      | 类别备注<br>Course<br>Categories<br>Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name     | 学分<br>Credits | 考核方<br>式<br>Testing<br>method | 是否学<br>位课<br>Degree<br>Course | 是否核<br>心课程<br>COURSE<br>CORE | 是否必选<br>Required<br>Course | 学时<br>Teaching Hours |                |                           |                 |                             | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                            |     |     |               |
|-------------------------------|-----------------------------------|--|-----------|---------------------|-------------------------|---------------|-------------------------------|-------------------------------|------------------------------|----------------------------|----------------------|----------------|---------------------------|-----------------|-----------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|----------------------------|-----|-----|---------------|
|                               |                                   |  |           |                     |                         |               |                               |                               |                              |                            | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory<br>Hours | 实践<br>Practicum | 上机<br>Computer<br>Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学<br>年<br>Fourth<br>Term |     |     |               |
|                               |                                   |  |           |                     |                         |               |                               |                               |                              |                            |                      |                |                           |                 |                             | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                        | 4-1 | 4-2 |               |
| 必修课组<br>Compulsory<br>Courses | 必修-公共基础<br>及通识教育课<br>Public basic |  | 1         | 1713000010          | 军事理论<br>Military Theory | 2             | 考查                            |                               |                              | √                          | 32                   | 32             | 0                         | 0               | 0                           | 1-1                |     |     |                     |     |     |                    |     |             |                            |     |     | 课外<br>学时<br>4 |

大连海事大学本科专业培养计划

|                               |    |            |   |   |    |   |   |    |    |    |   |    |     |  |  |  |  |  |  |  |  |
|-------------------------------|----|------------|---|---|----|---|---|----|----|----|---|----|-----|--|--|--|--|--|--|--|--|
| and general education courses | 2  | 1713000025 | 体育(1)(海上)<br>Physical Education                             | 1 | 考查 | √ | √ | 28 | 0  | 28 | 0 | 0  | 1-1 |  |  |  |  |  |  |  |  |
|                               | 3  | 1713000081 | 高等数学(B-1)<br>Advanced Mathematics                           | 4 | 考试 | √ | √ | 64 | 64 | 0  | 0 | 0  | 1-1 |  |  |  |  |  |  |  |  |
|                               | 4  | 1713000350 | 大学计算机基础<br>Introduction to College Computer Science         | 2 | 试内 | √ | √ | 32 | 10 | 0  | 0 | 22 | 1-1 |  |  |  |  |  |  |  |  |
|                               | 5  | 1713019280 | 中国近现代史纲要<br>Compendium of Chinese Neoteric & Modern History | 3 | 考查 | √ | √ | 48 | 40 | 0  | 8 | 0  | 1-1 |  |  |  |  |  |  |  |  |
|                               | 6  | 2113000221 | 大学英语(海上)<br>College English                                 | 3 | 考试 | √ | √ | 48 | 32 | 0  | 0 | 16 | 1-1 |  |  |  |  |  |  |  |  |
|                               | 7  | 1713000026 | 体育(2)(海上)<br>Physical Education                             | 1 | 考查 | √ | √ | 40 | 0  | 32 | 8 | 0  | 1-2 |  |  |  |  |  |  |  |  |
|                               | 8  | 1713000082 | 高等数学(B-2)<br>Advanced Mathematics                           | 6 | 考试 | √ | √ | 96 | 96 | 0  | 0 | 0  | 1-2 |  |  |  |  |  |  |  |  |
|                               | 9  | 1713000191 | 大学物理实验(1)<br>Physics Experiment                             | 1 | 试内 |   | √ | 24 | 0  | 24 | 0 | 0  | 1-2 |  |  |  |  |  |  |  |  |
|                               | 10 | 1713000410 | 逻辑学<br>Logic  | 1 | 考查 |   | √ | 16 | 16 | 0  | 0 | 0  | 1-2 |  |  |  |  |  |  |  |  |
|                               | 11 | 1713025360 | 思想道德与法治   | 3 | 试内 | √ | √ | 48 | 40 | 0  | 8 | 0  | 1-2 |  |  |  |  |  |  |  |  |
|                               | 12 | 1713025581 | 大学物理(A-1)<br>University Physics                             | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0  | 1-2 |  |  |  |  |  |  |  |  |
|                               | 13 | 2113000222 | 大学英语(海上)<br>College English                                 | 3 | 考试 | √ | √ | 48 | 32 | 0  | 0 | 16 | 1-2 |  |  |  |  |  |  |  |  |
|                               | 14 | 1713000027 | 体育(3)(海上)<br>Physical Education                             | 1 | 考查 | √ | √ | 36 | 0  | 36 | 0 | 0  | 2-1 |  |  |  |  |  |  |  |  |
|                               | 15 | 1713000050 | 马克思主义基本原理<br>Basic Tenets of Marxism                        | 3 | 考试 | √ | √ | 48 | 40 | 0  | 8 | 0  | 2-1 |  |  |  |  |  |  |  |  |
|                               | 16 | 1713000120 | 线性代数(B)<br>Linear Algebra                                   | 2 | 考试 |   | √ | 32 | 32 | 0  | 0 | 0  | 2-1 |  |  |  |  |  |  |  |  |
|                               | 17 | 1713000130 | 概率论与数理统计<br>Probability Theory & Mathematical Statistics    | 3 | 考试 |   | √ | 48 | 48 | 0  | 0 | 0  | 2-1 |  |  |  |  |  |  |  |  |

## 航海技术

|  |                           |   |            |                              |  |    |    |   |   |    |    |    |    |   |  |     |  |  |  |  |  |  |     |
|--|---------------------------|---|------------|------------------------------|--|----|----|---|---|----|----|----|----|---|--|-----|--|--|--|--|--|--|-----|
|  |                           |   | 18         | 1713000192                   | 大学物理实验 (2)<br>Physics<br>Experiment  | 1  | 考查 |   | √ | 24 | 0  | 24 | 0  | 0 |  | 2-1 |  |  |  |  |  |  |     |
|  |                           |   | 19         | 1713022340                   | 大学化学 (海上)<br>College Chemistry   | 2  | 考试 |   | √ | 32 | 32 | 0  | 0  | 0 |  | 2-1 |  |  |  |  |  |  |     |
|  |                           |   | 20         | 1713025582                   | 大学物理 (A-2)<br>University<br>Physics  | 4  | 考试 |   | √ | 64 | 64 | 0  | 0  | 0 |  | 2-1 |  |  |  |  |  |  |     |
|  |                           |   | 21         | 2113000223                   | 大学英语 (海上)<br>College English   | 3  | 考试 | √ | √ | 48 | 48 | 0  | 0  | 0 |  | 2-1 |  |  |  |  |  |  |     |
|  |                           |   | 22         | 1713000028                   | 体育 (4) (海上)<br>Physical<br>Education   | 1  | 考查 | √ | √ | 40 | 0  | 32 | 8  | 0 |  | 2-2 |  |  |  |  |  |  |     |
|  |                           |   | 23         | 1713026100                   | 毛泽东思想和中国<br>特色社会主义理论<br>体系概论<br>Introduction to<br>Mao Zedong<br>Thought and<br>Theoretical<br>System of<br>Socialism with<br>Chinese<br>Characteristics | 3  | 考试 | √ | √ | 48 | 48 | 0  | 0  | 0 |  | 2-2 |  |  |  |  |  |  |     |
|  |                           |   | 24         | 2113000224                   | 大学英语 (海上)<br>College English   | 3  | 考试 |   | √ | 48 | 48 | 0  | 0  | 0 |  | 2-2 |  |  |  |  |  |  |     |
|  |                           |   | 25         | 2113000580                   | 实用写作<br>Factual writing;   | 1  | 考查 |   | √ | 16 | 16 | 0  | 0  | 0 |  | 2-3 |  |  |  |  |  |  |     |
|  |                           |   | 26         | 1713022040                   | 习近平新时代中国<br>特色社会主义思想<br>概论<br>An Introduction<br>to Xi Jinping<br>Thought on<br>Socialism with<br>Chinese<br>Characteristics<br>for a New Era            | 3  | 考试 |   | √ | 48 | 40 | 0  | 8  | 0 |  |     |  |  |  |  |  |  | 3-2 |
|  | 必修-专业及方向课程 Stream Courses |   | 1          | 1713015940                   | 远洋业务与海商法<br>International<br>Shipping Business<br>and Maritime Law   | 4  | 考试 | √ | √ | 64 | 60 | 0  | 4  | 0 |  |     |  |  |  |  |  |  | 4-1 |
|  |                           | 2 | 1713016542 | 航海学 (下)<br>Marine Navigation | 3  | 考试 | √  | √ | √ | 48 | 42 | 0  | 6  | 0 |  |     |  |  |  |  |  |  | 4-1 |
|  |                           | 3 | 1713016550 | 电子海图显示与信息<br>系统<br>ECDIS     | 2  | 考试 | √  | √ | √ | 32 | 12 | 0  | 20 | 0 |  |     |  |  |  |  |  |  | 4-1 |

大连海事大学本科专业培养计划

|  |  |  |    |            |  |   |    |   |   |   |    |    |   |    |   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     |     |
|--|--|--|----|------------|--|---|----|---|---|---|----|----|---|----|---|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|-----|-----|-----|
|  |  |  | 4  | 1713015950 | 航海气象学与海洋学<br>Marine Meteorology and Oceanography           | 3 | 考试 | √ | √ | √ | 48 | 42 | 6 | 0  | 0 |  |  |  |  |  |  |  | 2-2 |  |  |  |  |  |  |  |  |  |  |  |     |     |     |
|  |  |  | 5  | 1713016541 | 航海学(上)<br>Marine Navigation                                | 5 | 考试 | √ | √ | √ | 80 | 74 | 0 | 6  | 0 |  |  |  |  |  |  |  | 2-2 |  |  |  |  |  |  |  |  |  |  |  |     |     |     |
|  |  |  | 6  | 1713004480 | 轮机概论<br>Introduction to Marine Engineering                 | 2 | 考查 |   |   | √ | 32 | 26 | 6 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  | 3-1 |     |     |
|  |  |  | 7  | 1713016000 | 船舶结构与设备<br>Ship Construction and Equipment                 | 3 | 考试 | √ | √ | √ | 48 | 40 | 8 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-1 |     |
|  |  |  | 8  | 1713016020 | GMDSS 通信设备与业务<br>GMDSS Communication Equipment and Service | 4 | 考试 | √ | √ | √ | 64 | 64 | 0 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-1 |     |
|  |  |  | 9  | 1713016560 | 船舶操纵<br>Ship Handling                                      | 3 | 考试 | √ | √ | √ | 48 | 48 | 0 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-1 |     |
|  |  |  | 10 | 1713016580 | 航海仪器<br>Nautical Instruments                               | 4 | 考试 | √ | √ | √ | 64 | 46 | 0 | 18 | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-1 |     |
|  |  |  | 11 | 1713015960 | 船舶货运<br>Marine Cargo Operations                            | 4 | 考试 | √ | √ | √ | 64 | 64 | 0 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     | 3-2 |
|  |  |  | 12 | 1713015970 | 航海英语会话与评估<br>Maritime English Listening and Speaking       | 2 | 考查 |   |   | √ | 32 | 16 | 0 | 16 | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-2 |     |
|  |  |  | 13 | 1713015990 | 航海英语阅读<br>Maritime English Reading Comprehension           | 4 | 考试 | √ | √ | √ | 64 | 64 | 0 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     | 3-2 |
|  |  |  | 14 | 1713016010 | 船舶安全管理<br>Ship Safety Management                           | 3 | 考试 | √ | √ | √ | 48 | 48 | 0 | 0  | 0 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     | 3-2 |

## 航海技术

|  |  |  |          |            |   |     |    |   |     |   |    |    |   |      |      |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|----------|------------|---|-----|----|---|-----|---|----|----|---|------|------|-----|-----|----|--|--|--|--|--|--|-----|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  | 15       | 1713016570 | 船舶导航雷达<br>Shipborne<br>Navigation Radar                       | 2   | 考试 | √ | √   | √ | 32 | 32 | 0 | 0    | 0    |     |     |    |  |  |  |  |  |  | 3-2 |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 16       | 1713016590 | 船舶避碰与值班<br>Ship Collision<br>Avoidance and<br>Watchkeeping    | 3.5 | 考试 | √ | √   | √ | 56 | 56 | 0 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 必修-专业(类)<br>基础课<br>Disciplinary<br>Courses |  |  | 1        | 1713010180 | 机械制图<br>Mechanical<br>Graphing                                | 2   | 考查 |   |     | √ | 32 | 28 | 4 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 2        | 1713015880 | (船舶)无线电技术<br>基础<br>(Ship) Radio<br>Technology<br>Fundamentals | 3   | 考试 |   |     | √ | 48 | 40 | 8 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 3        | 1713015890 | 电工学 I<br>Electrical<br>Engineering<br>Technology              | 2   | 考试 |   |     | √ | 32 | 28 | 4 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 4        | 1713015930 | 航海力学<br>Nautical<br>Mechanics                                 | 2   | 考试 |   |     | √ | 32 | 26 | 6 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 5        | 1713025620 | 航海专业数学<br>Mathematics for<br>Marine Navigation                | 2.5 | 考试 |   |     | √ | 40 | 40 | 0 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 6        | 1713015910 | 船舶原理<br>Principles of<br>naval<br>Architecture                | 3   | 考试 | √ | √   | √ | 48 | 48 | 0 | 0    | 0    |     |     |    |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 合计 Total |            |   |     |    |   | 129 |   |    |    |   | 2160 | 1770 | 218 | 118 | 54 |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

表 3: 航海技术(普通班) 限选课程设置及进程

Table3: Nautical Science[General Class] Curriculum of Restrictive Optional Courses

| 课程性质<br>Course Nature                | 课程类别<br>Course Categories                                   | 类别备注<br>Course Categories Remark     | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name   | 学分<br>Credits                                 | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE COURSE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                         |     |     |  |  |
|--------------------------------------|---|--------------------------------------|-----------|---------------------|---|---|------------------------|------------------------|-----------------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|-------------------------|-----|-----|--|--|
|                                      |   |                                      |           |                     |   |   |                        |                        |                       |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学<br>年<br>Fourth Term |     |     |  |  |
|                                      |   |                                      |           |                     |   |   |                        |                        |                       |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                     | 4-1 | 4-2 |  |  |
| 限选课组<br>Restrictive Optional Courses | 限选-公共基础及通识教育课<br>Public basic and general education courses |                                      | 1         | 1713000370          | 计算机程序设计基础(C)<br>Basics of Computer Programming(C)                     | 3   | 考试                     |                        |                       |                         | 48                   | 24             | 0                      | 0               | 24                       | 1-2                |     |     |                     |     |     |                    |     |             |                         |     |     |  |  |
|                                      |   |                                      | 2         | 1713025590          | Python 数据分析<br>Data Analysis with Python                              | 2   | 考查                     |                        |                       |                         |                      | 32             | 16                     | 16              | 0                        | 0                  | 1-2 |     |                     |     |     |                    |     |             |                         |     |     |  |  |
|                                      |   |                                      | 3         | 1713025600          | MATLAB 语言与可视化仿真<br>MATLAB Language and Visual Simulation              | 2   | 考查                     |                        |                       |                         |                      | 32             | 16                     | 16              | 0                        | 0                  | 1-2 |     |                     |     |     |                    |     |             |                         |     |     |  |  |
|                                      |   |                                      | 4         | 1713016040          | 英语阅读<br>English Reading Comprehension                                 | 2   | 考查                     |                        |                       |                         |                      | 32             | 32                     | 0               | 0                        | 0                  |     |     | 2-1                 |     |     |                    |     |             |                         |     |     |  |  |
|                                      |   |                                      | 5         | 1713000250          | 英语中级口语<br>Intermediate Oral English                                   | 2   | 考查                     |                        |                       |                         |                      | 32             | 32                     | 0               | 0                        | 0                  |     |     |                     |     |     | 3-1                |     |             |                         |     |     |  |  |
|                                      |   | 限选-专业(类)基础课<br>Disciplinary Courses  |           | 1                   | 1713018510  | 专业导论(航海)<br>Introduction of Profession        | 0.5                    | 考查                     |                       |                         |                      | 8              | 8                      | 0               | 0                        | 0                  | 1-1 |     |                     |     |     |                    |     |             |                         |     |     |  |  |
|                                      |   | 限选-专业及方向课程(智能航运方向)<br>Stream Courses |           | 1                   | 1713024660  | 智能航海导论<br>Intelligent Navigation Introduction | 1                      | 考查                     |                       |                         |                      | 16             | 16                     | 0               | 0                        | 0                  |     |     | 2-1                 |     |     |                    |     |             |                         |     |     |  |  |
|                                      |   |                                      | 2         | 1713024640          | 物联网与船联网技术<br>Technology on Internet of things and Internet of vessels | 1   | 考查                     |                        |                       |                         |                      | 16             | 16                     | 0               | 0                        | 0                  |     |     |                     | 2-2 |     |                    |     |             |                         |     |     |  |  |

## 航海技术

|                                      |  |   |            |   |     |    |  |  |  |    |    |   |   |   |     |     |  |     |  |  |  |
|--------------------------------------|--|---|------------|---|-----|----|--|--|--|----|----|---|---|---|-----|-----|--|-----|--|--|--|
|                                      |  | 3 | 1713024630 | 航运大数据技术与应用<br>Big data techniques and applications on shipping                | 1   | 考查 |  |  |  | 16 | 16 | 0 | 0 | 0 |     |     |  | 3-1 |  |  |  |
|                                      |  | 4 | 1713016090 | 船舶建模与控制<br>Math Models and Ship Controls                                      | 1   | 考查 |  |  |  | 16 | 16 | 0 | 0 | 0 |     |     |  | 3-2 |  |  |  |
|                                      |  | 5 | 1713024620 | 智能船岸基支持系统与远程控制<br>Shore support system and remote control of Intelligent Ship | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0 | 0 |     |     |  | 3-2 |  |  |  |
| 限选-专业及方向课程(海上执法模块)<br>Stream Courses |  | 1 | 1713006410 | 法理学<br>Jurisprudence of Law   | 3   | 考试 |  |  |  | 48 | 48 | 0 | 0 | 0 |     | 2-1 |  |     |  |  |  |
|                                      |  | 2 | 1713005440 | 海洋法<br>Law of the Sea   | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0 | 0 |     | 2-2 |  |     |  |  |  |
|                                      |  | 3 | 1713018080 | 海域使用管理法<br>Law of the Administration of the Use of Sea Areas                  | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0 | 0 |     |     |  | 3-1 |  |  |  |
|                                      |  | 4 | 1713018070 | 海上行政执法<br>Maritime Administrative Law Enforcement                             | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0 | 0 |     |     |  | 3-2 |  |  |  |
| 限选-专业及方向课程(航运管理模块)<br>Stream Courses |  | 1 | 1713007480 | 宏观经济学<br>Macroeconomics   | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0 | 0 |     | 2-2 |  |     |  |  |  |
|                                      |  | 2 | 1713007610 | 金融学<br>Finance  | 3   | 考试 |  |  |  | 48 | 48 | 0 | 0 | 0 |     |     |  | 3-1 |  |  |  |
|                                      |  | 3 | 1713018090 | 国际商务<br>International Commerce  | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0 | 0 |     |     |  | 3-2 |  |  |  |
| 限选-专业及方向课程 Stream Courses            |  | 1 | 1713016060 | 船员心理学<br>Psychology for Seafarers   | 1.5 | 考查 |  |  |  | 24 | 24 | 0 | 0 | 0 | 1-1 |     |  |     |  |  |  |
|                                      |  | 2 | 1713022430 | 中国海员史<br>the History of Chinese Seafarers                                     | 2   | 考查 |  |  |  | 32 | 32 | 0 | 0 | 0 | 1-1 |     |  |     |  |  |  |

## 大连海事大学本科专业培养计划

|          |  |    |            |  |    |    |  |  |  |  |     |     |    |    |    |  |  |  |  |     |  |     |     |  |  |
|----------|--|----|------------|--|----|----|--|--|--|--|-----|-----|----|----|----|--|--|--|--|-----|--|-----|-----|--|--|
|          |  | 3  | 1713016100 | 特种货物运输<br>Special Cargoes<br>Operations                                  | 2  | 考查 |  |  |  |  | 32  | 32  | 0  | 0  | 0  |  |  |  |  |     |  |     | 4-1 |  |  |
|          |  | 4  | 1713016110 | LNG 船货物运输<br>Cargo<br>Operations of                                      | 2  | 考查 |  |  |  |  | 32  | 16  | 0  | 16 | 0  |  |  |  |  |     |  |     | 4-1 |  |  |
|          |  | 5  | 1713016120 | 航海涉外礼仪<br>Maritime<br>International<br>Etiquette                         | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  | 2-2 |  |     |     |  |  |
|          |  | 6  | 1713016070 | 海洋船舶气象定<br>线<br>Weather Routing<br>of Ship                               | 1  | 考查 |  |  |  |  | 16  | 12  | 4  | 0  | 0  |  |  |  |  |     |  | 3-1 |     |  |  |
|          |  | 7  | 1713016130 | 国际海事发展动<br>态<br>Development of<br>International<br>Maritime Issues       | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  |     |  | 3-1 |     |  |  |
|          |  | 8  | 1713022080 | GMDSS 通信英语<br>GMDSS Service  | 2  | 考试 |  |  |  |  | 32  | 28  | 4  | 0  | 0  |  |  |  |  |     |  | 3-1 |     |  |  |
|          |  | 9  | 1713016050 | 海事调查与案例<br>分析<br>Investigation<br>and Analysis of<br>Marine<br>Accidents | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  |     |  | 3-2 |     |  |  |
|          |  | 10 | 1713016140 | 海事管理概论<br>Introduction to<br>Maritime<br>Administration                  | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  |     |  | 3-2 |     |  |  |
| 合计 Total |  |    |            |  | 48 |    |  |  |  |  | 768 | 688 | 40 | 16 | 24 |  |  |  |  |     |  |     |     |  |  |

表 4: 航海技术(普通班)任选课程设置及进程

Table4: Nautical Science[General Class] Free Electives System

1. 全校性选修课程分为人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程及其他课程。其中, 1) 必修课不设“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。2) 必修课设置“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。具体课程见每年度选课系统中的全校选修课程一览。

The elective courses are divided into “humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses” and “other courses”. Among them, 1) The majors without “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. 2) The majors with “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. For specific courses, please refer to the list of elective courses in the course selection system of each year.

2. 学生参加学校、院系组织的第二课堂活动, 并符合学校有关学籍管理规定, 可获得相应任选课学分, 具体参考学生手册中的学籍管理规定部分。

If students participate in the second classroom activities organized by the school and departments, and meet the school's relevant regulations on student status management, they can obtain corresponding optional course credits. For details, please refer to the regulations on student status management in the student handbook.

表 5: 航海技术(普通班) 实践环节课程设置及进程

Table5: Nautical Science[General Class] Practical Training System

| 课程性质<br>Course Nature      | 课程类别<br>Course Categories | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                                  | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                         |            |     |  |           |
|----------------------------|---------------------------|----------------------------------|-----------|---------------------|--|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|-------------------------|------------|-----|--|-----------|
|                            |                           |                                  |           |                     |  |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学<br>年<br>Fourth Term |            |     |  |           |
|                            |                           |                                  |           |                     |  |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                     | 4-1        | 4-2 |  |           |
| 必修课组<br>Compulsory Courses | 必修-实践环节<br>Practicum      |                                  | 1         | 1713000450          | 公益劳动<br>Labor Week                                   | 0             | 考查                     |                        |                | √                       | 0                    | 0              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                         | 课外学时<br>32 |     |  |           |
|                            |                           |                                  | 2         | 1713000440          | 军事训练<br>Military Training                            | 3             | 考查                     |                        |                | √                       | 90                   | 0              | 0                      | 90              | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 3         | 1713016170          | 航线设计<br>Ship Course Design                           | 1             | 考查                     |                        |                | √                       | 30                   | 0              | 0                      | 30              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         | 4-1        |     |  |           |
|                            |                           |                                  | 4         | 2113000460          | 毕业实习及毕业论文<br>Graduation Practice, Design& Thesis     | 12            | 考查                     |                        |                | √                       | 360                  | 0              | 0                      | 360             | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            | 4-2 |  |           |
|                            |                           |                                  | 5         | 1713004710          | 精通救生艇筏和救助艇<br>Proficiency in Life boat & Rescue boat | 1             | 考查                     |                        |                | √                       | 28                   | 0              | 0                      | 28              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 6         | 1713004720          | 精通急救<br>Proficiency in First Aid                     | 1             | 考查                     |                        |                | √                       | 30                   | 0              | 0                      | 30              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 7         | 1713017530          | 高级消防<br>Advanced Fire Fighting                       | 1             | 考查                     |                        |                | √                       | 36                   | 0              | 0                      | 36              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 8         | 1713025610          | 船艺训练<br>Seamanship Training                          | 1             | 考查                     |                        |                | √                       | 30                   | 0              | 0                      | 30              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 9         | 1713026090          | 基本安全<br>Basic Safety                                 | 2.5           | 考查                     |                        |                | √                       | 86                   | 54             | 0                      | 32              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 10        | 1713016190          | 船舶保安<br>Ship Security                                | 0.5           | 考查                     |                        |                | √                       | 20                   | 0              | 0                      | 20              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  | 小学<br>期课程 |
|                            |                           |                                  | 11        | 1713016150          | 船舶认识实习<br>Ship Observation                           | 4             | 考查                     |                        |                | √                       | 120                  | 0              | 0                      | 120             | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |
|                            |                           |                                  | 12        | 1713016160          | 货物积载与系固<br>Cargo Stowage and Securing                | 1             | 考查                     |                        |                | √                       | 40                   | 0              | 0                      | 40              | 0                        |                    |     |     |                     |     |     |                    |     |             |                         |            |     |  |           |

大连海事大学本科专业培养计划

|          |  |  |    |            |  |    |    |  |   |   |      |    |    |     |   |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |
|----------|--|--|----|------------|--|----|----|--|---|---|------|----|----|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----|--|--|--|--|--|--|--|
|          |  |  | 13 | 1713016200 | GMDSS 设备操作<br>GMDSS Equipment<br>Operation | 2  | 考查 |  |   | √ | 60   | 0  | 0  | 60  | 0 |  |  |  |  |  |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
|          |  |  | 14 | 1713016180 | 驾驶台资源管理<br>Bridge<br>Resources             | 1  | 考查 |  | √ | √ | 40   | 20 | 20 | 0   | 0 |  |  |  |  |  |  |  |  |  |  |  |  |     | 3-3 |  |  |  |  |  |  |  |
|          |  |  | 15 | 1713016210 | 雷达操作与应用<br>Radar Operation                 | 1  | 考查 |  |   | √ | 40   | 0  | 0  | 40  | 0 |  |  |  |  |  |  |  |  |  |  |  |  | 3-3 |     |  |  |  |  |  |  |  |
| 合计 Total |  |  |    |            |  | 32 |    |  |   |   | 1010 | 74 | 20 | 916 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |

表 6: 航海技术(普通班) 讲座设置及进程

Table6: Nautical Science[General Class] General Lectures System

| 课程性质<br>Course Nature      | 课程类别<br>Course Categories     | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                               | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必修<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                         |     |     |  |  |  |  |  |  |  |  |                                |         |
|----------------------------|-------------------------------|----------------------------------|-----------|---------------------|---|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|-------------------------|-----|-----|--|--|--|--|--|--|--|--|--------------------------------|---------|
|                            |                               |                                  |           |                     |   |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学<br>年<br>Fourth Term |     |     |  |  |  |  |  |  |  |  |                                |         |
|                            |                               |                                  |           |                     |   |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                     | 4-1 | 4-2 |  |  |  |  |  |  |  |  |                                |         |
|                            |                               |                                  |           |                     |   |               |                        |                        |                |                         |                      |                |                        |                 |                          |                    |     |     |                     |     |     |                    |     |             |                         |     |     |  |  |  |  |  |  |  |  |                                |         |
| 必修课组<br>Compulsory Courses | 必修-讲座<br>Lectures and Seminar |                                  | 1         | 1713000480          | 入学教育<br>Admission Orientations                    | 0             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                         |     |     |  |  |  |  |  |  |  |  |                                |         |
|                            |                               |                                  | 2         | 1713025340          | 形势与政策   | 2             | 考查                     |                        |                |                         | √                    | 64             | 64                     | 0               | 0                        | 0                  | 1-1 | 1-2 |                     | 2-1 | 2-2 |                    |     |             |                         |     |     |  |  |  |  |  |  |  |  | 4个学年的第1、2学期分别设8学时，2学分设置在第4-1学期 |         |
|                            |                               |                                  | 3         | 1713000520          | 职业生涯规划<br>Career Planning for University Students | 0.5           | 考查                     |                        |                |                         | √                    | 8              | 8                      | 0               | 0                        | 0                  |     | 1-2 |                     |     |     |                    |     |             |                         |     |     |  |  |  |  |  |  |  |  |                                |         |
|                            |                               |                                  | 4         | 2113000510          | 大学生健康教育<br>Health education of college            | 1             | 考查                     |                        |                |                         | √                    | 16             | 16                     | 0               | 0                        | 0                  |     | 1-2 |                     |     |     |                    |     |             |                         |     |     |  |  |  |  |  |  |  |  |                                | 课外学时 16 |

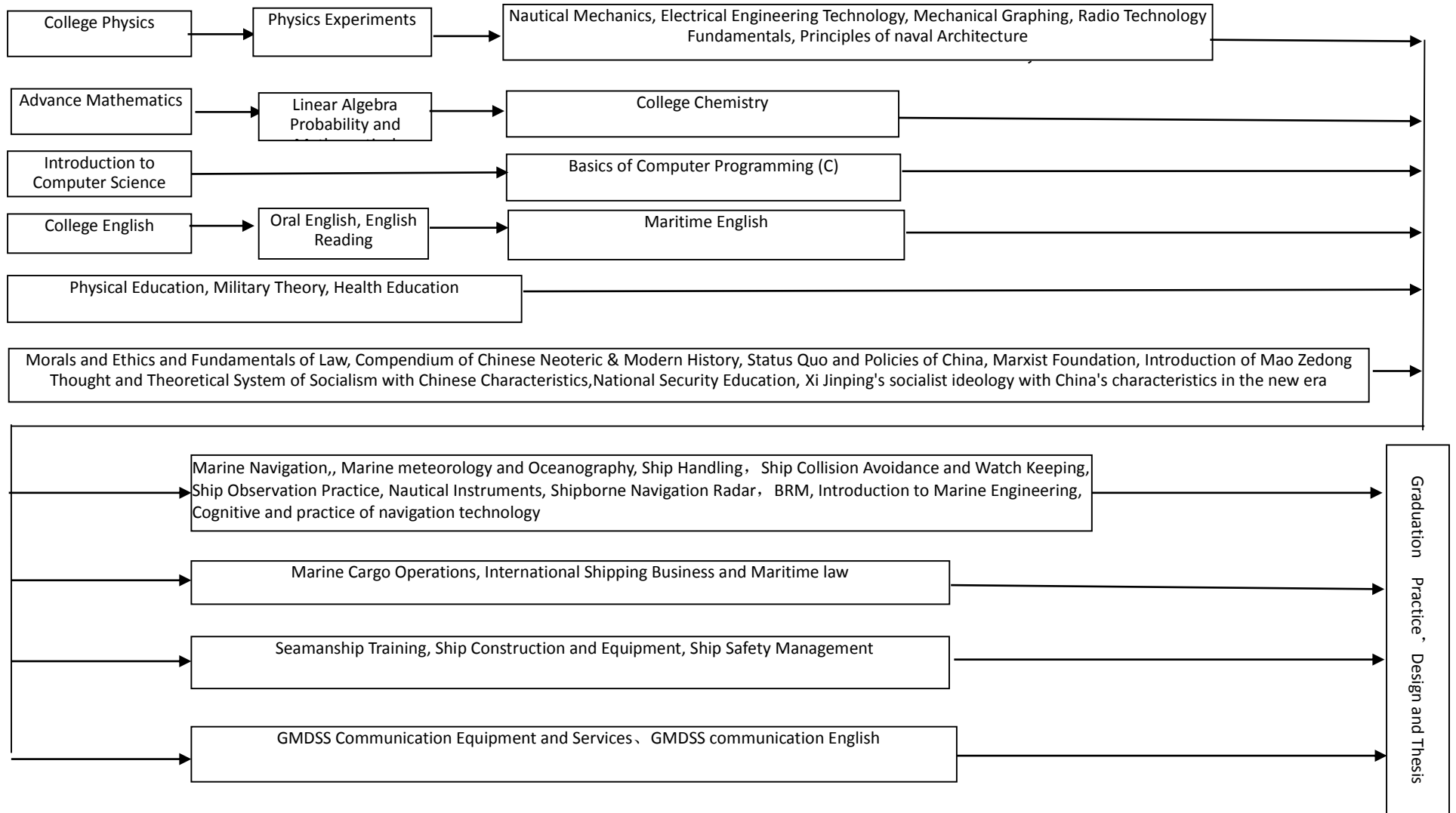
航海技术

|          |  |  |   |            |   |     |    |  |  |   |     |     |   |   |   |  |  |  |  |     |  |  |  |  |  |  |     |  |               |
|----------|--|--|---|------------|---|-----|----|--|--|---|-----|-----|---|---|---|--|--|--|--|-----|--|--|--|--|--|--|-----|--|---------------|
|          |  |  | 5 | 2113000300 | 国家安全教育(航海)<br>National Security Education       | 1   | 考查 |  |  | √ | 16  | 16  | 0 | 0 | 0 |  |  |  |  | 1-3 |  |  |  |  |  |  |     |  | 小学<br>期课<br>程 |
|          |  |  | 6 | 1713000530 | 就业指导<br>Career Guidance for University Students | 0.5 | 考查 |  |  | √ | 8   | 8   | 0 | 0 | 0 |  |  |  |  |     |  |  |  |  |  |  | 3-1 |  |               |
| 合计 Total |  |  |   |            |   | 5   |    |  |  |   | 128 | 128 | 0 | 0 | 0 |  |  |  |  |     |  |  |  |  |  |  |     |  |               |

## 航海技术（普通班）专业选课指导图



### Course Selection Flowchart



# 航海技术(英语班)专业本科培养计划（2022）

## Undergraduate Program for Nautical Science Major [English-Emphasized Class]

### 一、专业简介

#### I. Program Profile

大连海事大学航海技术专业在国内外享有较高的知名度，1992年入选交通部“八五”首批重点建设学科专业，2006年入选辽宁省高等学校示范专业，2007年入选国家高等学校特色专业建设点，2011年入选辽宁省高等学校综合改革试点专业。航海技术专业本科毕业生具有较强的实践动手能力、英语运用能力、业务能力和良好的团队协作精神，深受港航企事业单位的好评。航海技术专业毕业生就业主要面向各航运公司从事远洋运输工作，部分毕业生到海事局、船级社、引航站或航海类院校等港航企事业单位从事相关工作。

The nautical science in Navigation College, DMU, enjoys a high reputation and popularity both at home and abroad. In 1992, it was selected by Ministry of Transport as one of the National Key-building Disciplines in State's Eighth Five-Year Plan. This Program was rated as one of the demonstration disciplines of tertiary education in Liaoning Province in 2006, selected as one of the Featuring Specialties under national tertiary education construction in 2007, and appointed as one of the trial units for comprehensive reformation in tertiary education of Liaoning Province in 2011. In the nautical science, the students will be trained into high quality and competent mariners. They are professionals with high English level and team-work spirits, and enjoy high reputation in all shipping industries, including shipping companies, port management companies, maritime institutions, maritime safety administrations, classification societies, pilot stations, and maritime colleges and universities

### 二、培养目标

#### II. Program Objectives

本专业培养具备良好的人文素养，扎实的自然科学基础知识和航海技术基本理论，系统掌握船舶航行、货物积载与装卸、船舶作业管理和人员管理、船舶通信等方面的知识和技能，综合素质好、英语沟通能力及安全与环保意识强、具有国际竞争能力的高级航海人才。毕业生可从事远洋船舶驾驶、船舶引航、管理、航海教育等工作。

The program cultivates high-level marine talents who should possess good comprehensive quality, strong English skills and consciousness of safety and environment protection, and competitiveness in international shipping industries, with good humanistic accomplishments, as well as:

- ✓ a solid knowledge-base in natural science and theories of nautical science;
- ✓ knowledge and skills in the ship navigation, cargo stowage and handling;
- ✓ ship operation management;
- ✓ human resource management;
- ✓ and shipborne communication.

Graduates of the program are projected to engage in the practices of ocean-going ship handling, ship pilotage, management, as well as maritime education.

## 三、毕业要求

## III. Graduation Requirements

| 毕业要求  | 毕业要求指标点分解  |
|---|--|
| <p><b>毕业要求 1</b></p> <p><b>Graduation Requirement 1</b></p> <p><b>工程知识:</b> 具备将数学、自然科学、工程基础和专业<br/>知识应用于航海技术领域复杂工程问题的能力。</p> <p><b>Engineering knowledge:</b> the ability to apply<br/>mathematics, natural sciences, engineering fundamentals<br/>and expertise to complex engineering issues in the field<br/>of nautical science.</p>  | <p>1-1 能够将数学、自然科学、工程基础和专业<br/>知识运用到复杂航海技术问题的恰当<br/>表述中</p> <p>1-1 to use the mathematics, natural sciences,<br/>engineering fundamentals and expertise to<br/>the appropriate statements of complex nautical<br/>science issues</p> <p>1-2 能够将工程和专业<br/>知识用于航海技术问题的分析、设计、<br/>计算、模拟与改进</p> <p>1-2 can be used for engineering and<br/>professional knowledge of nautical science<br/>problems in the analysis, design, calculation,<br/>simulation and improvement</p> <p>1-3 熟悉航海技术行业特点, 具备较好的<br/>工程思维和实践技能, 并可应用于解决<br/>复杂工程问题。</p> <p>1-3 to familiar with the characteristics of<br/>nautical science field, with good engineering<br/>thinking and practical skills, and can be<br/>applied to solve complex engineering<br/>problems.</p> |
| <p><b>毕业要求 2</b></p> <p><b>Graduation Requirement 2</b></p> <p><b>问题分析:</b> 能够应用数学、自然科学和工程科学<br/>的基本原理, 识别、表达、并通过文献研究分析<br/>复杂航海技术问题, 以获得有效结论。</p> <p><b>Problem Analysis:</b> The basic principles of<br/>mathematics, natural sciences and engineering<br/>sciences can be applied to identify, express,<br/>and analyze complex nautical science<br/>problems through literature research to obtain<br/>effective conclusions.</p>   | <p>2-1 能够识别和判断复杂航海技术问题的<br/>核心特征与关键环节</p> <p>2-1 to identify and determine the core of<br/>complex nautical science problems and key<br/>links</p> <p>2-2 能够运用基本原理和文献资料辅助正确<br/>表达解决复杂航海技术问题的技术方案, 证<br/>实解决方案的合理性。</p> <p>2-2 can apply basic principles and<br/>document literature to express the technical<br/>route to solve complex nautical science<br/>problems, and prove the rationality of the<br/>technical route.</p>   |
| <p><b>毕业要求 3</b></p> <p><b>Graduation Requirement 3</b></p> <p><b>设计/开发解决方案:</b> 能够设计针对复杂航海<br/>技术问题的解决方案, 设计满足特定需求的<br/>工作流程, 并能够在设计环节中体现创新意<br/>识, 考虑社会、健康、安全、法律、文化以<br/>及环境等因素。</p> <p><b>Design / develop solutions:</b> Design<br/>solutions for complex nautical science<br/>problems, design processes that meet<br/>specific needs, and be able to embody<br/>innovation awareness in the design process,<br/>taking into account social, health, safety,<br/>and law, culture and environment and other<br/>factors.</p> | <p>3-1 能够进行复杂工程问题的针对性调研,<br/>确定设计目标</p> <p>3-1 be able to carry out complex<br/>engineering problems targeted research to<br/>determine the design goals</p> <p>3-2 能够在环境、安全、法律、社会、经济<br/>等现实约束条件下, 依照相关规则选取工<br/>艺单元、系统或流程并进行优选, 体现创<br/>新意识</p> <p>3-2 can be in the environment, security,<br/>legal, social, economic and other realistic<br/>constraints, in accordance with the<br/>relevant rules to design working processes<br/>that meets specific needs and make<br/>optimization, to reflect the sense of<br/>innovation</p> <p>3-3 能够对解决方案进行合理计算、评价,<br/>并用图纸、报告等形式呈现</p> <p>3-3 can calculate and evaluate the<br/>solution, can use drawings, reports and<br/>other forms to show results.</p>                                    |
| <p><b>毕业要求 4</b></p>  | <p>4-1 针对工程问题的技术验证, 能够制定<br/>合理的研究方案</p>   |

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| <p>Graduation Requirement 4</p> <p>研究：能够基于科学原理并采用科学方法对复杂航海技术问题进行研究，并能得到合理有效的结论</p> <p><b>Research:</b> It is possible to study complex nautical science problems based on scientific principles and scientific methods, and obtain a rational and effective result.</p>   | <p>4-1 for technical problems of engineering verification, to develop a reasonable research program.</p> <p>4-2 能够基于专业理论，根据对象特征，选择研究路线，设计可行的实验实践方案，获取合理有效的结论</p> <p>4-2 can be based on professional theory, according to the characteristics of the object, select the research route, the design of feasible experimental program, obtain rational and effective results.</p>   |
| <p><b>毕业要求 5</b></p> <p><b>Graduation Requirement5</b></p> <p><b>使用现代工具：</b>能够针对复杂航海技术问题，选择与使用恰当的技术、资源、现代工程工具和信息技术工具，并能够理解其局限性</p> <p><b>The use of modern tools:</b> the ability to select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex nautical science issues, and the ability to understand its limitations</p>   | <p>5-1 能够较为熟练运用现代工程工具和信息技术工具，表达复杂航海技术问题的解决方案，能理解其局限性</p> <p>5-1 can use modern engineering tools and information technology tools to express complex the solution of nautical science problems, and understand its limitations</p> <p>5-2 能够运用文献检索工具，获取复杂航海技术问题的相关信息与技术最新进展</p> <p>5-2 can use literature search tools to obtain relevant information and latest technology development in complex nautical science problems.</p>   |
| <p><b>毕业要求 6</b></p> <p><b>Graduation Requirement6</b></p> <p><b>工程与社会：</b>能够基于工程相关背景知识进行合理分析，评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响，并理解应承担的责任</p> <p><b>Engineering and Society:</b> The ability to conduct a rational analysis based on engineering-related background knowledge, evaluate the impact of professional engineering practices and complex engineering problem solutions on society, health, safety, law and culture, and understand the responsibilities that should be borne</p> | <p>6-1 具有工程实习和社会实践的经历</p> <p>6-1 the experience of engineering practice and social practice</p> <p>6-2 能够识别和分析航海技术实践和复杂工程问题解决方案对社会、健康、安全、文化的影响</p> <p>6-2 the ability to identify and analyze the impact of nautical science practices and complex engineering problem solutions on social, health, safety and culture</p> <p>6-3 熟悉复杂航海技术问题的解决中应遵循的法律法规和职业道德规范，明确承担的责任和义务。</p> <p>6-3 familiar with the complex nautical science problems should be resolved in accordance with the laws and regulations and professional ethics, clearly assume responsibility and obligations.</p> |
| <p><b>毕业要求 7</b></p> <p><b>Graduation Requirement7</b></p> <p><b>环境和可持续发展：</b>能够理解和评价针对复杂航海技术问题的工程实践对环境、社会可持续发展的影响</p> <p><b>Environment and Sustainable Development:</b> The</p>   | <p>7-1 理解环境保护和社会可持续发展的内涵和意义，能够正确评价工程实践活动对环境的影响</p> <p>7-1 understand the environmental protection and social sustainable development of the connotation and significance, can correctly evaluate the engineering practice activities on the environment</p>   |

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| <p>ability to understand and evaluate the impact of engineering practices on complex nautical science issues on environmental and social sustainable development</p>  | <p>7-2 能够在复杂工程问题解决方案中体现对节能和环境友好的要求，客观评价解决方案对社会可持续发展的影响</p> <p>7-2 to reflect the energy-saving and environment-friendly requirements in the complex engineering problem solution , objectively evaluate the effects of solutions on social sustainable development.</p>  |
| <p><b>毕业要求 8</b></p> <p><b>Graduation Requirement8</b></p> <p><b>职业规范:</b> 具有人文社会科学素养、社会责任感, 能够在工程实践中理解并遵守工程职业道德和规范, 履行责任</p> <p><b>Professional norms:</b> Have humanities and social science literacy, social responsibility, understand and comply with engineering ethics and norms in engineering practice, to fulfill responsibilities</p>  | <p>8-1 具有正确的人生观、价值观和世界观, 了解国情, 维护国家利益, 具有推动民族复兴和社会进步的责任感</p> <p>8-1 have the correct outlook on life, values and world outlook, understand the national conditions, safeguard national interests, with the promotion of national rejuvenation and social progress of the sense of responsibility</p> <p>8-2 具有人文社会科学素养, 具备履行社会职责的身心条件</p> <p>8-2 have the humanities and social science literacy, have the physical and psychological conditions to fulfill social responsibilities</p> <p>8-3 理解航海技术伦理的核心理念, 在工程实践中自觉遵守职业道德和规范, 具有法律意识</p> <p>8-3 understand the core concept of nautical science ethics, consciously abide by professional ethics and norms in engineering practice, with legal awareness.</p> |
| <p><b>毕业要求 9</b></p> <p><b>Graduation Requirement9</b></p> <p><b>个人和团队:</b> 能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色</p> <p><b>Individuals and Teams:</b> The ability to take on individual, team members, and responsible roles in a multidisciplinary team</p>  | <p>9-1 具有团队协作意识, 具有一定的组织管理能力和较强的自我控制能力、人际交往能力</p> <p>9-1 have a sense of teamwork, with a certain degree of organizational management and strong self-control, interpersonal skills</p> <p>9-2 能够独立完成团队分配的工作, 并与其他团队成员有效沟通, 共享信息</p> <p>9-2 be able to independently complete the work of team distribution, and other members of the effective communication and sharing of information</p> <p>9-3 了解与本专业相关学科等领域的技术衔接, 了解作为团队负责人应具备的素质与能力</p> <p>9-3 understand related disciplines and other areas of technical convergence, Understand the qualities and abilities of a team leader.</p>  |
| <p><b>毕业要求 10</b></p> <p><b>Graduation Requirement10</b></p> <p><b>沟通:</b> 具备一定的国际视野, 能够有效在跨文化背景下进行沟通和交流。能够就复杂工程问题与业界同行及社会公众进行沟通和交流。</p> <p><b>Communication:</b>Have a certain international perspective, to communicate and discuss in cross-cultural background, and theability to communicate and discuss effectively with industry peers and the public on complex engineering issues.</p> | <p>10-1 能够使用英语, 在跨文化背景下进行有效沟通交流</p> <p>10-1be able to use English to communicate in the context of cross-cultural</p> <p>10-2 了解航海技术专业的国际发展趋势、研究热点, 能够通过口头、书面、图表等方式表达思想, 与业界同行及社会公众进行沟通和交流。通过国家主管机关规定的考试和评估, 具备规定的海上资历, 可取得海洋船舶驾驶员相关的适任证书。</p> <p>10-2 to understand the international development trends, research hot spots of nautical science, and express ideas through oral, written, charts, etc., and communicate and</p>  |

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|  | discuss effectively with industry peers and the public, pass the required test and assessment by the national authority, possess required sea service, and obtain the relevant competency certificate for officers working on ocean-going ships.   |
| <b>毕业要求 11</b><br><b>Graduation Requirement11</b><br><b>项目管理:</b> 理解工程管理原理与决策方法, 并能在实践中予以应用<br><b>Project management:</b> To understand the principles of project management and decision-making methods, and can be applied in practice.              | 11-1 能够对行业项目的工艺路线、工艺方案进行基本技术经济分析和比较<br>11-1 do technical and economic analysis and have comparison of the technological route and process plan.<br>11-2 了解行业项目的实施过程, 掌握工程项目运营的相关技术与管理知识<br>11-2 understand the project implementation process, master the related technology and management knowledge of engineering project operation.  |
| <b>毕业要求 12</b><br><b>Graduation Requirement12</b><br><b>终身学习:</b> 具有自主学习和终身学习的意识, 有不断学习和适应发展的能力<br><b>Lifelong learning:</b> with independent learning and lifelong learning awareness, have the ability to continue to learn and adapt to development | 12-1 具有自主学习和终身学习意识, 具备终身学习的知识基础, 掌握自主学习的方法, 了解拓展知识和能力的途径<br>12-1 with independent learning and lifelong learning awareness, with a lifelong learning knowledge base, master the way of self-learning, understanding of ways to expand knowledge and ability<br>12-2 能针对个人或职业发展需求, 采用合适的方法, 自主学习, 适应航海技术领域的发展<br>12-2 for personal or career development needs, to use appropriate methods to go on self-learning and adapt to the development of nautical science field. |

#### 四、特色课程

##### IV. Feature Courses

船艺训练、航海学(英)、船舶结构与设备(英)、船舶操纵(英)、船舶避碰与值班(英)、船舶货运(英)、航海气象学与海洋学(英)、船舶安全管理(英)、航海仪器(英)、船舶导航雷达(英)、GMDSS 通信设备与业务(英)、驾驶室资源管理

Seamanship Training, Marine Navigation, Ship Construction and Equipment, Ship Handling, Ship Collision Avoidance and Watchkeeping, Marine Cargo Operations, Marine meteorology and Oceanography, Ship Safety Management, Nautical Instruments, Shipborne Navigation Radar, GMDSS Communication Equipment and Services, Bridge Resources Management

#### 五、学制与学位

##### V. Duration and Degree

学制: 4 年

Program Duration: 4 years

授予学位: 工学学士学位

Degree conferred: Bachelor of Engineering

#### 六、学分要求

##### VI. Credit Requirement

191.5 学分

191.5 Credit

七、课程体系与毕业培养要求的对应关系矩阵

The course system and the requirements of the graduate relation matrix

| 序号 | 毕业要求指标点<br>课程名称          | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|--------------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                          | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 1  | 专业导论 (航海技术)              | M     |     |     |       |     |       |     |     |       |     |       | M   |       |     | L   |       | M   |       | L   |     |       |     | H   |        |      |        |      | H      |      |
| 2  | 入学教育                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | M   | M     |     | H   |        |      | M      | H    |        |      |
| 3  | 形势与政策                    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 4  | 军事理论                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 5  | 军事训练                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 6  | 体 育                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 7  | 马克思主义基本原理                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 8  | 中国近现代史纲要                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 9  | 毛泽东思想和中国特色<br>社会主义理论体系概论 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 10 | 习近平新时代中国特色社会主义思想概论       |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 11 | 思想道德修养与<br>法律基础          |       |     |     |       |     |       |     |     |       |     |       | M   | M     | M   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 12 | 逻辑学                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 13 | 国家安全教育 (航海)              |       |     |     |       |     |       |     |     |       |     |       | H   | H     | H   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 14 | 高等数学                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 15 | 线性代数                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 16 | 大学物理                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 17 | 大学物理实验                   |       |     |     | M     | M   |       |     |     | H     | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 18 | 大学化学 (海上)                |       | H   |     |       |     | M     | M   | M   |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 19 | 实用写作                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |

## 航海技术

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 20 | 大学英语(含口语、听说)    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 21 | 航海英语(初、中、高级)    |       |     |     |       |     |       |     |     |       |     | H     |     |       |     |     |       | H   |       | H   |     |       |     | H   | H      |      |        | M    | M      |      |
| 22 | 大学计算机基础         |       |     |     |       |     |       |     |     |       | H   | H     |     |       |     |     |       |     |       |     |     |       |     | M   | M      |      |        |      |        |      |
| 23 | 计算机程序设计基础(C语言)  |       |     |     |       |     |       |     |     |       | H   | H     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 24 | Python 数据分析     |       | H   |     |       |     |       |     | H   |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 25 | MATLAB 语言与可视化仿真 |       | H   |     | H     |     |       | H   |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 26 | 电工学 1 (英)       | H     |     |     |       |     | M     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 27 | 机械制图            |       | H   |     |       |     |       | M   | M   |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 28 | 航海力学(英)         |       | H   |     |       |     | M     |     |     | L     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 29 | (船舶)无线电技术基础(英)  | H     | M   |     |       |     | M     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 30 | 航海专业数学(英)       | H     | M   | H   |       | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | M      |      |        |      |        |      |
| 31 | 船舶原理(英)         | H     | H   | H   |       | M   |       |     |     |       |     |       |     |       | L   |     |       |     |       |     |     |       |     |     |        |      |        | L    |        |      |
| 32 | 远洋业务与海商法(英)     |       |     |     |       |     | L     |     |     |       |     |       |     | M     | M   | M   |       |     |       | M   |     |       | M   |     |        |      | L      |      |        |      |
| 33 | 航海气象学与海洋学(英)    | L     |     |     | M     |     |       |     |     |       |     |       |     |       |     | M   | M     | L   |       |     |     |       |     |     | H      |      |        | L    |        |      |
| 34 | 船舶货运(英)         | H     | H   | M   |       | H   |       |     | M   |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | M      |      |        |      |        |      |
| 35 | 轮机概论(英)         | L     |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     | M     |     | H   |        |      |        |      | L      |      |
| 36 | 航海英语会话与评估       |       |     |     |       |     |       |     |     |       | L   | L     |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 37 | 船艺训练            |       |     | H   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     |     | M     | M   |     |        | M    |        |      |        |      |
| 38 | 船舶结构与设备(英)      |       | H   | H   | H     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      | H      |      |        |      |
| 39 | 航海学(英)          | M     | M   | H   | H     | M   | M     | L   | L   | L     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |

大连海事大学本科专业培养计划

| 序号 | 毕业要求指标点<br>课程名称      | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|----------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                      | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 40 | 电子海图显示与信息系<br>统 (英)  |       | H   | H   | H     |     |       | M   |     |       | H   | M     |     |       | L   |     |       |     |       | L   |     |       | M   |     | M      |      |        |      | L      |      |
| 41 | 船舶避碰与值班 (英)          |       | H   | H   | H     |     |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |
| 42 | 船舶操纵 (英)             |       | H   | H   | H     |     |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |
| 43 | 船舶导航雷达 (英)           | M     |     |     |       |     |       |     |     | M     | M   |       |     | M     | M   | L   |       |     |       | M   |     |       |     | H   |        |      |        | M    |        |      |
| 44 | 船舶安全管理 (英)           |       |     |     |       |     |       | M   |     |       |     |       |     | L     | M   | M   | H     | M   | M     | H   | H   | M     |     |     | H      |      |        |      |        |      |
| 45 | 航海仪器 (英)             | M     | H   |     |       |     |       |     |     | H     | M   |       |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |
| 46 | GMDSS 通信设备与业务<br>(英) |       |     | H   |       |     |       | M   |     |       | M   | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 47 | GMDSS 通信英语           |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 48 | 大学英语写作               |       |     |     |       |     |       |     | M   | M     | L   | H     |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      | M      |      |
| 49 | 英语报刊导读               |       |     |     |       |     |       |     | M   | M     | L   | H     |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      | M      |      |
| 50 | 跨文化交际                |       |     |     |       |     |       |     | M   | M     | L   | H     |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      | M      |      |
| 51 | 海事调查与案例分析<br>(英)     | H     |     |     |       | H   |       |     |     |       |     |       |     |       | H   |     |       |     |       | H   |     |       |     |     |        |      |        |      |        |      |
| 52 | 船员心理学                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | L   |       |     |     |        |      |        |      |        |      |
| 53 | 海洋船舶气象定线             | M     |     |     |       | M   |       |     |     |       |     |       |     |       |     | M   |       |     |       |     |     |       |     |     | L      |      |        | L    |        |      |
| 54 | 中国海员史                |       |     |     |       |     |       |     |     |       |     |       |     | M     |     |     |       |     | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 55 | 概率论与数理统计             | M     | M   | M   | H     | H   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 56 | 船舶建模与控制              | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 57 | 智能航海导论               | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 58 | 物联网与船联网技术            | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 59 | 航运大数据技术与应用           | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 60 | 智能船岸基支持系统与<br>远程控制   | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |

## 航海技术

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |  |  |   |   |   |   |  |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|--|--|---|---|---|---|--|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |  |  |   |   |   |   |  |
| 61 | 特种货物运输 (英)      |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |  |  |   |   |   |   |  |
| 62 | LNG 船货物运输 (英)   |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |  |  |   |   |   |   |  |
| 63 | 国际海事发展动态 (英)    |       |     |     |       | M   |       |     |     |       |     |       |     |       |     |     | L     | L   |       |     |     |       |     |     |        |      |        |      |        |      |  |  |   |   |   |   |  |
| 64 | 海事管理概论          | M     | M   | M   |       |     |       |     |     |       |     | M     |     |       |     |     |       |     |       |     | M   |       |     |     |        |      |        |      |        |      |  |  |   | L |   |   |  |
| 65 | 船舶认识实习          |       |     | M   | L     |     |       |     |     |       |     |       | H   | L     | L   | L   | M     |     |       |     | M   | M     |     |     |        | H    | L      |      |        |      |  |  |   |   |   |   |  |
| 66 | 精通救生艇筏和救助艇      |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     |        | H    |        |      |        |      |  |  |   |   |   |   |  |
| 67 | 精通急救            |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     |        | H    |        |      |        |      |  |  |   |   |   |   |  |
| 68 | 熟悉与基本安全         |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     |        | H    |        |      |        |      |  |  |   |   |   |   |  |
| 69 | 高级消防            |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     |        | H    |        |      |        |      |  |  |   |   |   |   |  |
| 70 | 船舶保安            |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     |        | H    |        |      |        |      |  |  |   |   |   |   |  |
| 71 | 货物积载与系固         |       |     | M   |       |     |       |     |     |       | M   |       |     |       |     |     |       |     |       |     | M   | M     |     |     |        | H    | H      |      |        |      |  |  |   |   |   |   |  |
| 72 | 航线设计            |       | M   | H   |       |     |       | M   | M   |       |     |       |     |       |     |     |       | M   | M     |     |     | M     | M   |     |        | H    | M      | H    |        |      |  |  |   |   |   |   |  |
| 73 | 驾驶台资源管理         |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     |     |     | H      | H    | H      |      |        |      |  |  |   |   |   |   |  |
| 74 | GMDSS 设备操作      |       |     | H   |       |     |       |     | M   |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     |     |        | H    |        |      |        |      |  |  |   |   |   |   |  |
| 75 | 雷达操作与应用         | M     |     |     | H     |     |       |     | M   |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      | H      |      |        |      |  |  |   |   |   |   |  |
| 76 | 公益劳动            |       |     |     |       |     |       |     |     |       |     |       |     | H     |     |     |       | H   |       | H   | M   |       |     |     | M      | L    |        |      |        |      |  |  |   |   |   |   |  |
| 77 | 大学生健康教育         |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   | H   | H      | H    |        |      |        |      |  |  |   |   |   |   |  |
| 78 | 职业生涯规划          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |  |  |   | H | H |   |  |
| 79 | 就业指导            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |  |  |   |   |   |   |  |
| 80 | 毕业实习及毕业论文       |       |     |     |       |     |       | H   | H   | H     | H   | H     |     | H     |     |     |       |     |       |     | M   | M     |     |     |        |      |        |      |        |      |  |  | H |   | H | H |  |

注：关联度强的用“H”表示，关联度中等的用“M”表示，关联度弱的用“L”表示。

Note: The degree of correlation should be marked as "H"(high), "M"(medium) and "L"(low).

八、教学计划进度表

参见表 1~表 6

Curriculum Structure

Refer to Table1~Table6.

表 1: 航海技术(英语班)课程设置及学分安排

Table1: Nautical Science [English-Emphasized Class] Curriculum and Credits

| 课程分类<br>Course<br>Categories | 理论课程 (154.5 学分)<br>In-class Teaching Courses (154.5 credits) |                               |                     |                     | 集中实践环节 (32 学分)<br>Centralized Practicum<br>(32 credits) |                               | 讲座 (5 学分)<br>Lectures and Seminars<br>(5 credits) |                               | 总计    |
|------------------------------|--|-------------------------------|---------------------|---------------------|---|-------------------------------|---|-------------------------------|-------|
|                              | 必修<br>Compulsory   | 限选<br>Restrictive<br>Optional | 任选<br>Free Optional |                     | 必修<br>Compulsory  | 限选<br>Restrictive<br>Optional | 必修<br>Compulsory                                  | 限选<br>Restrictive<br>Optional |       |
| 学分<br>Credits                | 136.5  | 10                            | 8                   |                     | 32  | 0                             | 5   | 0                             | 191.5 |
| 占理论课学分百分比<br>Percentage      | 87.78  | 6.43                          | 5.14                |                     |   |                               |   |                               |       |
| 实验上机环节学分                     | 独立实验上机学分<br>6  | 课内实验上机学分<br>14.88             | 限选必修课的独立实验上机学分<br>0 | 限选必修课的课内实验上机学分<br>0 |   |                               |   |                               |       |
| 实践环节占学分百分比                   |  |                               |                     |                     | 27.47   |                               |   |                               |       |

注: 实践环节学分占总学分百分比=【(课内实践+课内实验+课内上机)学时/16+(独立实验+独立上机)学时/24+集中实践性教学学分)】/总学分\*100%

Note: Percentage of Practice = 【(In-class practice+ In-class Experiment + In-class Operation) Credits/16+ (Independent Experiment+ Independent Operation) Credits/24+Centralizing Practical Teaching Credits】/Total Credits\*100%

表 2: 航海技术(英语班)必修课程设置及进程

Table2: Nautical Science [English-Emphasized Class] Curriculum of Compulsory Courses

| 课程性质<br>Course<br>Nature | 课程类别<br>Course<br>Categories | 类别备注<br>Course<br>Categories<br>Remark | 序号<br>No. | 课程编号<br>Course<br>Code | 课程名称<br>Course<br>Name  | 学分<br>Credits | 考核方式<br>Testi<br>ng<br>metho<br>d | 是否学位课<br>Degree<br>Course | 是否核心课程<br>CORE<br>COURSE | 是否必修<br>Required<br>Course | 学时<br>Teaching Hours |                    |                            |                 |                                 | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                        |     |     |        |
|--------------------------|------------------------------|--|-----------|------------------------|-------------------------|---------------|-----------------------------------|---------------------------|--------------------------|----------------------------|----------------------|--------------------|----------------------------|-----------------|---------------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|------------------------|-----|-----|--------|
|                          |                              |  |           |                        |                         |               |                                   |                           |                          |                            | 合计<br>Total          | 讲课<br>Lecture<br>s | 实验<br>Laborator<br>y Hours | 实践<br>Practicum | 上机<br>Computer<br>Operatio<br>n | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth<br>Term |     |     |        |
|                          |                              |  |           |                        |                         |               |                                   |                           |                          |                            |                      |                    |                            |                 |                                 | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                    | 4-1 | 4-2 |        |
| 必修课                      | 必修-公共                        |  | 1         | 1713000010             | 军事理论<br>Military Theory | 2             | 考查                                |                           |                          | √                          | 32                   | 32                 | 0                          | 0               | 0                               | 1-1                |     |     |                     |     |     |                    |     |             |                        |     |     | 课外学时 4 |



|   |            |   |            |   |            |                             |   |    |    |    |    |    |   |   |   |  |  |     |     |     |  |  |  |  |  |     |  |  |  |
|---|------------|---|------------|---|------------|-----------------------------|---|----|----|----|----|----|---|---|---|--|--|-----|-----|-----|--|--|--|--|--|-----|--|--|--|
|   |            | 18                                      | 1713000192 | 大学物理实验 (2)<br>Physics Experiment  | 1          | 考查                          |   | √  | 24 | 0  | 24 | 0  | 0 |   |   |  |  | 2-1 |     |     |  |  |  |  |  |     |  |  |  |
|   |            | 19                                      | 1713000240 | 英语初级口语<br>Elementary Oral English   | 1          | 考试                          |   | √  | 32 | 32 | 0  | 0  | 0 |   |   |  |  |     | 2-1 |     |  |  |  |  |  |     |  |  |  |
|   |            | 20                                      | 1713022340 | 大学化学 (海上)<br>College Chemistry  | 2          | 考试                          |   | √  | 32 | 32 | 0  | 0  | 0 |   |   |  |  |     | 2-1 |     |  |  |  |  |  |     |  |  |  |
|   |            | 21                                      | 1713025582 | 大学物理 (A-2)<br>University Physics  | 4          | 考试                          |   | √  | 64 | 64 | 0  | 0  | 0 |   |   |  |  |     | 2-1 |     |  |  |  |  |  |     |  |  |  |
|   |            | 22                                      | 1713000028 | 体育 (4) (海上)<br>Physical Education   | 1          | 考查                          | √ |    | √  | 40 | 0  | 32 | 8 | 0 |   |  |  |     |     | 2-2 |  |  |  |  |  |     |  |  |  |
|   |            | 23                                      | 1713026100 | 毛泽东思想和中国特色社会主义理论体系概论<br>Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | 3          | 考试                          | √ |    | √  | 48 | 48 | 0  | 0 | 0 |   |  |  |     |     | 2-2 |  |  |  |  |  |     |  |  |  |
|   |            | 24                                      | 2113000580 | 实用写作<br>Factual writing;  | 1          | 考查                          |   |    | √  | 16 | 16 | 0  | 0 | 0 |   |  |  |     |     | 2-3 |  |  |  |  |  |     |  |  |  |
|   |            | 25                                      | 1713022040 | 习近平新时代中国特色社会主义思想概论<br>An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         | 3          | 考试                          |   |    | √  | 48 | 40 | 0  | 8 | 0 |   |  |  |     |     |     |  |  |  |  |  | 3-2 |  |  |  |
|   |            | 必修-专业<br>(类)基础课<br>Disciplinary Courses |            | 1   | 1713010180 | 机械制图<br>Mechanical Graphing | 2 | 考查 |    | √  | 32 | 28 | 4 | 0 | 0 |  |  |     |     | 2-1 |  |  |  |  |  |     |  |  |  |
| 2 | 1713016220 |   |            | (船舶)无线电技术基础 (英)<br>(Ship) Radio Technology Fundamentals   | 3          | 考试                          |   | √  | 48 | 40 | 8  | 0  | 0 |   |   |  |  | 2-1 |     |     |  |  |  |  |  |     |  |  |  |
| 3 | 1713016230 |   |            | 电工学 I (英)<br>Electrical Engineering Technology  | 2          | 考试                          |   | √  | 32 | 28 | 4  | 0  | 0 |   |   |  |  | 2-1 |     |     |  |  |  |  |  |     |  |  |  |

## 航海技术

|                                     |  |  |   |            |   |     |    |   |   |   |    |    |   |    |   |  |  |     |  |     |  |  |  |     |     |
|-------------------------------------|--|--|---|------------|---|-----|----|---|---|---|----|----|---|----|---|--|--|-----|--|-----|--|--|--|-----|-----|
|                                     |  |  | 4 | 1713016260 | 航海力学（英）<br>Nautical Mechanics                                       | 2   | 考试 |   |   | √ | 32 | 26 | 6 | 0  | 0 |  |  | 2-1 |  |     |  |  |  |     |     |
|                                     |  |  | 5 | 1713025620 | 航海专业数学<br>Mathematics for Marine Navigation                         | 2.5 | 考试 |   |   | √ | 40 | 40 | 0 | 0  | 0 |  |  | 2-1 |  |     |  |  |  |     |     |
|                                     |  |  | 6 | 1713016250 | 船舶原理（英）<br>Principles of naval Architecture                         | 3   | 考试 | √ | √ | √ | 48 | 48 | 0 | 0  | 0 |  |  |     |  | 3-1 |  |  |  |     |     |
| 必修-专业<br>及方向课程<br>Stream<br>Courses |  |  | 1 | 1713016270 | 远洋业务与海商法<br>（英）<br>International Shipping Business and Maritime Law | 4   | 考试 | √ |   | √ | 64 | 60 | 0 | 4  | 0 |  |  |     |  |     |  |  |  | 4-1 |     |
|                                     |  |  | 2 | 1713016340 | 高级航海英语<br>Advanced Maritime English                                 | 2.5 | 考查 | √ |   | √ | 40 | 40 | 0 | 0  | 0 |  |  |     |  |     |  |  |  |     | 4-1 |
|                                     |  |  | 3 | 1713016370 | 航海学下（英）<br>Marine Navigation  | 3   | 考试 | √ | √ | √ | 48 | 42 | 0 | 6  | 0 |  |  |     |  |     |  |  |  |     | 4-1 |
|                                     |  |  | 4 | 1713016380 | 电子海图显示与信息<br>系统（英）<br>ECDIS   | 2   | 考试 | √ | √ | √ | 32 | 12 | 0 | 20 | 0 |  |  |     |  |     |  |  |  |     | 4-1 |
|                                     |  |  | 5 | 1713016280 | 航海气象学与海洋<br>学（英）<br>Marine Meteorology and Oceanography             | 3   | 考试 | √ | √ | √ | 48 | 42 | 6 | 0  | 0 |  |  |     |  | 2-2 |  |  |  |     |     |
|                                     |  |  | 6 | 1713016360 | 航海学上（英）<br>Marine Navigation  | 5   | 考试 | √ | √ | √ | 80 | 74 | 0 | 6  | 0 |  |  |     |  | 2-2 |  |  |  |     |     |
|                                     |  |  | 7 | 1713016300 | 轮机概论（英）<br>Introduction to Marine Engineering                       | 2   | 考查 |   |   | √ | 32 | 26 | 6 | 0  | 0 |  |  |     |  |     |  |  |  |     | 3-1 |
|                                     |  |  | 8 | 1713016350 | 船舶结构与设备<br>（英）<br>Ship Construction and Equipment                   | 3   | 考试 | √ | √ | √ | 48 | 40 | 8 | 0  | 0 |  |  |     |  |     |  |  |  |     | 3-1 |
|                                     |  |  | 9 | 1713016390 | 船舶操纵（英）<br>Ship Handling  | 3   | 考试 | √ | √ | √ | 48 | 48 | 0 | 0  | 0 |  |  |     |  |     |  |  |  |     | 3-1 |

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|----------|------------|---|-------|----|---|---|---|------|------|-----|-----|-----|--|--|--|--|--|--|--|-----|-----|--|--|--|--|--|--|--|
| 10       | 1713016420 | 航海仪器 (英)<br>Nautical<br>Instruments   | 4     | 考试 | √ | √ | √ | 64   | 46   | 0   | 18  | 0   |  |  |  |  |  |  |  | 3-1 |     |  |  |  |  |  |  |  |
| 11       | 1713016430 | GMDSS 通信设备与<br>业务 (英)<br>GMDSS<br>Communication<br>Equipment and<br>Service | 4     | 考试 | √ | √ | √ | 64   | 64   | 0   | 0   | 0   |  |  |  |  |  |  |  | 3-1 |     |  |  |  |  |  |  |  |
| 12       | 1713024690 | 初级航海英语<br>Elementary<br>Maritime English                                    | 2.5   | 考查 | √ |   | √ | 40   | 40   | 0   | 0   | 0   |  |  |  |  |  |  |  | 3-1 |     |  |  |  |  |  |  |  |
| 13       | 1713016290 | 船舶货运 (英)<br>Marine Cargo<br>Operations                                      | 4     | 考试 | √ | √ | √ | 64   | 64   | 0   | 0   | 0   |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
| 14       | 1713016310 | 航海英语会话与评<br>估<br>Maritime English<br>Listening and<br>Speaking              | 1     | 考查 |   |   | √ | 16   | 8    | 0   | 8   | 0   |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
| 15       | 1713016400 | 船舶导航雷达 (英)<br>Shipborne<br>Navigation Radar                                 | 2     | 考试 | √ | √ | √ | 32   | 32   | 0   | 0   | 0   |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
| 16       | 1713016410 | 船舶安全管理 (英)<br>Ship Safety<br>Management                                     | 3     | 考试 | √ | √ | √ | 48   | 48   | 0   | 0   | 0   |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
| 17       | 1713016440 | 船舶避碰与值班<br>(英)<br>Ship Collision<br>Avoidance and<br>Watchkeeping           | 3.5   | 考试 | √ | √ | √ | 56   | 56   | 0   | 0   | 0   |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
| 18       | 1713024700 | 中级航海英语<br>Intermediate<br>Maritime English                                  | 2.5   | 考查 | √ |   | √ | 40   | 40   | 0   | 0   | 0   |  |  |  |  |  |  |  |     | 3-2 |  |  |  |  |  |  |  |
| 合计 Total |            |   | 136.5 |    |   |   |   | 2296 | 1866 | 218 | 110 | 102 |  |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |

表 3: 航海技术(英语班) 限选课程设置及进程

Table3: Nautical Science [English-Emphasized Class] Curriculum of Restrictive Optional Courses

| 课程性质<br>Course Nature                | 课程类别<br>Course Categories                                   | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name   | 学分<br>Credits                                     | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |     |  |  |
|--------------------------------------|---|----------------------------------|-----------|---------------------|---|---|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|-----|--|--|
|                                      |   |                                  |           |                     |   |   |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |     |  |  |
|                                      |   |                                  |           |                     |   |   |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2 |  |  |
| 限选课组<br>Restrictive Optional Courses | 限选-专业及方向课程<br>(智能航运方向)<br>Stream Courses                    |                                  | 1         | 1713024660          | 智能航海导论<br>Intelligent Navigation Introduction                                 | 1   | 考查                     |                        |                |                         | 16                   | 16             | 0                      | 0               | 0                        |                    |     |     | 2-1                 |     |     |                    |     |             |                     |     |     |  |  |
|                                      |   |                                  | 2         | 1713024640          | 物联网与船联网技术<br>Technology on Internet of things and Internet of vessels         | 1   | 考查                     |                        |                |                         | 16                   | 16             | 0                      | 0               | 0                        |                    |     |     | 2-2                 |     |     |                    |     |             |                     |     |     |  |  |
|                                      |   |                                  | 3         | 1713024630          | 航运大数据技术与应用<br>Big data techniques and applications on shipping                | 1   | 考查                     |                        |                |                         | 16                   | 16             | 0                      | 0               | 0                        |                    |     |     |                     |     |     | 3-1                |     |             |                     |     |     |  |  |
|                                      |   |                                  | 4         | 1713016090          | 船舶建模与控制<br>Math Models and Ship Controls                                      | 1   | 考查                     |                        |                |                         | 16                   | 16             | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     | 3-2         |                     |     |     |  |  |
|                                      |   |                                  | 5         | 1713024620          | 智能船岸基支持系统与远程控制<br>Shore support system and remote control of Intelligent Ship | 2   | 考试                     |                        |                |                         | 32                   | 32             | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     | 3-2         |                     |     |     |  |  |
|                                      | 限选-公共基础及通识教育课<br>Public basic and general education courses |                                  |           | 1                   | 1713016450  | 大学英语写作<br>College English Writing                 | 1                      | 试内                     |                |                         |                      | 16             | 16                     | 0               | 0                        | 0                  | 1-1 |     |                     |     |     |                    |     |             |                     |     |     |  |  |
|                                      |   |                                  |           | 2                   | 1713016460  | 英语语音<br>English Pronunciation                     | 1                      | 试内                     |                |                         |                      | 16             | 16                     | 0               | 0                        | 0                  | 1-1 |     |                     |     |     |                    |     |             |                     |     |     |  |  |
|                                      |   |                                  |           | 3                   | 1713000370  | 计算机程序设计基础(C)<br>Basics of Computer Programming(C) | 3                      | 试内                     |                |                         |                      | 48             | 24                     | 0               | 0                        | 24                 |     | 1-2 |                     |     |     |                    |     |             |                     |     |     |  |  |

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|--|--|--|---|------------|--|-----|----|--|--|--|----|----|----|----|---|--|-----|--|-----|--|--|-----|-----|
|  |  |  | 4 | 1713025590 | Python 数据分析<br>Data Analysis<br>with Python  | 2   | 考查 |  |  |  | 32 | 16 | 16 | 0  | 0 |  | 1-2 |  |     |  |  |     |     |
|  |  |  | 5 | 1713025600 | MATLAB 语言与可视<br>化仿真<br>MATLAB Language<br>and Visual<br>Simulation                               | 2   | 考查 |  |  |  | 32 | 16 | 16 | 0  | 0 |  | 1-2 |  |     |  |  |     |     |
|  |  |  | 6 | 1713016610 | 英语报刊导读<br>English journal<br>Reading   | 3   | 考试 |  |  |  | 48 | 48 | 0  | 0  | 0 |  |     |  | 2-1 |  |  |     |     |
|  |  |  | 7 | 1713018810 | 跨文化交际<br>Cross culture<br>Communication  | 3   | 考试 |  |  |  | 48 | 48 | 0  | 0  | 0 |  |     |  | 2-1 |  |  |     |     |
|  |  |  | 8 | 1713016470 | 大学英语视听说<br>(高级)<br>College English<br>Viewing,<br>Listening, and<br>Speaking<br>(Advanced Level) | 2   | 考试 |  |  |  | 32 | 32 | 0  | 0  | 0 |  |     |  |     |  |  | 2-2 |     |
|  |  |  | 9 | 1713016480 | 英语口语 (高级)<br>Spoken<br>English(Advanced<br>)   | 2   | 考试 |  |  |  | 32 | 32 | 0  | 0  | 0 |  |     |  |     |  |  |     | 2-2 |
|  | 限选-专业<br>(类)基础课<br>Disciplinary<br>Courses |  | 1 | 1713018510 | 专业导论 (航海)<br>Introduction of<br>Profession   | 0.5 | 考查 |  |  |  | 8  | 8  | 0  | 0  | 0 |  | 1-1 |  |     |  |  |     |     |
|  | 限选-专业<br>及方向课程<br>Stream<br>Courses        |  | 1 | 1713022430 | 中国海员史<br>the History of<br>Chinese Seafarers   | 2   | 考查 |  |  |  | 32 | 32 | 0  | 0  | 0 |  | 1-1 |  |     |  |  |     |     |
|  |  |  | 2 | 1713016510 | 特种货物运输 (英)<br>Special Cargoes<br>Operations  | 2   | 考查 |  |  |  | 32 | 32 | 0  | 0  | 0 |  |     |  |     |  |  |     | 4-1 |
|  |  |  | 3 | 1713016520 | LNG 船货物运输<br>(英)<br>Cargo Operations<br>of LNG Carriers  | 2   | 考查 |  |  |  | 32 | 16 | 0  | 16 | 0 |  |     |  |     |  |  |     | 4-1 |
|  |  |  | 4 | 1713016060 | 船员心理学<br>Psychology for<br>Seafarers   | 1.5 | 考查 |  |  |  | 24 | 24 | 0  | 0  | 0 |  |     |  |     |  |  | 1-2 |     |
|  |  |  | 5 | 1713016070 | 海洋船舶气象定线<br>Weather Routing<br>of Ship   | 1   | 考查 |  |  |  | 16 | 12 | 4  | 0  | 0 |  |     |  |     |  |  |     | 3-1 |

## 航海技术

|          |  |  |   |            |  |    |    |  |  |  |  |     |     |    |    |    |  |  |  |  |  |  |  |  |     |     |  |  |  |     |
|----------|--|--|---|------------|--|----|----|--|--|--|--|-----|-----|----|----|----|--|--|--|--|--|--|--|--|-----|-----|--|--|--|-----|
|          |  |  | 6 | 1713016500 | 国际海事发展动态(英)<br>Development of International Maritime Issues    | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  |  |  |  |  | 3-1 |     |  |  |  |     |
|          |  |  | 7 | 1713022080 | GMDSS 通信英语<br>GMDSS Service                                    | 2  | 考试 |  |  |  |  | 32  | 28  | 4  | 0  | 0  |  |  |  |  |  |  |  |  |     | 3-1 |  |  |  |     |
|          |  |  | 8 | 1713016140 | 海事管理概论<br>Introduction to Maritime Administration              | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  |  |  |  |  |     |     |  |  |  | 3-2 |
|          |  |  | 9 | 1713016490 | 海事调查与案例分析(英)<br>Investigation and Analysis of Marine Accidents | 1  | 考查 |  |  |  |  | 16  | 16  | 0  | 0  | 0  |  |  |  |  |  |  |  |  |     |     |  |  |  | 3-2 |
| 合计 Total |  |  |   |            |  | 39 |    |  |  |  |  | 624 | 544 | 40 | 16 | 24 |  |  |  |  |  |  |  |  |     |     |  |  |  |     |

表 4: 航海技术(英语班)任选课程设置及进程

Table4: Nautical Science [English-Emphasized Class] Free Electives System

1. 全校性选修课程分为人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程及其他课程。其中, 1) 必修课不设“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。2) 必修课设置“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。具体课程见每年度选课系统中的全校选修课程一览。

The elective courses are divided into “humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses” and “other courses”. Among them, 1) The majors without “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. 2) The majors with “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. For specific courses, please refer to the list of elective courses in the course selection system of each year.

2. 学生参加学校、院系组织的第二课堂活动, 并符合学校有关学籍管理规定, 可获得相应任选课学分, 具体参考学生手册中的学籍管理规定部分。

If students participate in the second classroom activities organized by the school and departments, and meet the school’s relevant regulations on student status management, they can obtain corresponding optional course credits. For details, please refer to the regulations on student status management in the student handbook.

表 5: 航海技术(英语班) 实践环节课程设置及进程

Table5: Nautical Science [English-Emphasized Class] Practical Training System

| 课程性质<br>Course Nature | 课程类别<br>Course Categories | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name       | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必修<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |     |  |  |  |  |  |  |         |
|-----------------------|---------------------------|----------------------------------|-----------|---------------------|---------------------------|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|-----|--|--|--|--|--|--|---------|
|                       |                           |                                  |           |                     |                           |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |     |  |  |  |  |  |  |         |
|                       |                           |                                  |           |                     |                           |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2 |  |  |  |  |  |  |         |
| 必修课<br>Compulsory     | 必修-实践环节<br>Practicum      |                                  | 1         | 1713000450          | 公益劳动<br>Labor Week        | 0             | 考查                     |                        |                | √                       | 0                    | 0              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     |     |  |  |  |  |  |  | 课外学时 32 |
|                       |                           |                                  | 2         | 1713000440          | 军事训练<br>Military Training | 3             | 考查                     |                        |                | √                       | 90                   | 0              | 0                      | 90              | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     |     |     |  |  |  |  |  |  |         |

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|---------|----------|------------|--|-----|----|---|---|-----|------|----|-----|-----|---|--|--|--|--|--|--|--|--|-----|-----|--|-------|
| Courses | 3        | 1713016170 | 航线设计<br>Ship Course Design                           | 1   | 考查 |   | √ | 30  | 0    | 0  | 30  | 0   |   |  |  |  |  |  |  |  |  | 4-1 |     |  |       |
|         | 4        | 1713016210 | 雷达操作与应用<br>Radar Operation                           | 1   | 考查 |   | √ | 40  | 0    | 0  | 40  | 0   |   |  |  |  |  |  |  |  |  | 4-1 |     |  |       |
|         | 5        | 2113000460 | 毕业实习及毕业论文<br>Graduation Practice, Design & Thesis    | 12  | 考查 |   | √ | 360 | 0    | 0  | 360 | 0   |   |  |  |  |  |  |  |  |  |     | 4-2 |  |       |
|         | 6        | 1713004710 | 精通救生艇筏和救助艇<br>Proficiency in Life boat & Rescue boat | 1   | 考查 |   | √ | 28  | 0    | 0  | 28  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 7        | 1713004720 | 精通急救<br>Proficiency in First Aid                     | 1   | 考查 |   | √ | 30  | 0    | 0  | 30  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 8        | 1713017530 | 高级消防<br>Advanced Fire Fighting                       | 1   | 考查 |   | √ | 36  | 0    | 0  | 36  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 9        | 1713025610 | 船艺训练<br>Seamanship Training                          | 1   | 考查 |   | √ | 30  | 0    | 0  | 30  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 10       | 1713026090 | 基本安全<br>Basic Safety                                 | 2.5 | 考查 |   | √ | 86  | 54   | 0  | 32  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 11       | 1713016190 | 船舶保安<br>Ship Security                                | 0.5 | 考查 |   | √ | 20  | 0    | 0  | 20  | 0   |   |  |  |  |  |  |  |  |  |     |     |  | 小学期课程 |
|         | 12       | 1713016150 | 船舶认识实习<br>Ship Observation Practice                  | 4   | 考查 |   | √ | 120 | 0    | 0  | 120 | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 13       | 1713016160 | 货物积载与系固<br>Cargo Stowage and Securing                | 1   | 考查 |   | √ | 40  | 0    | 0  | 40  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 14       | 1713016200 | GMDSS 设备操作<br>GMDSS Equipment Operation              | 2   | 考查 |   | √ | 60  | 0    | 0  | 60  | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 15       | 1713016180 | 驾驶台资源管理<br>Bridge Resources Management               | 1   | 考查 | √ | √ | 40  | 20   | 20 | 0   | 0   |   |  |  |  |  |  |  |  |  |     |     |  |       |
|         | 合计 Total |            |  |     | 32 |   |   |     | 1010 | 74 | 20  | 916 | 0 |  |  |  |  |  |  |  |  |     |     |  |       |

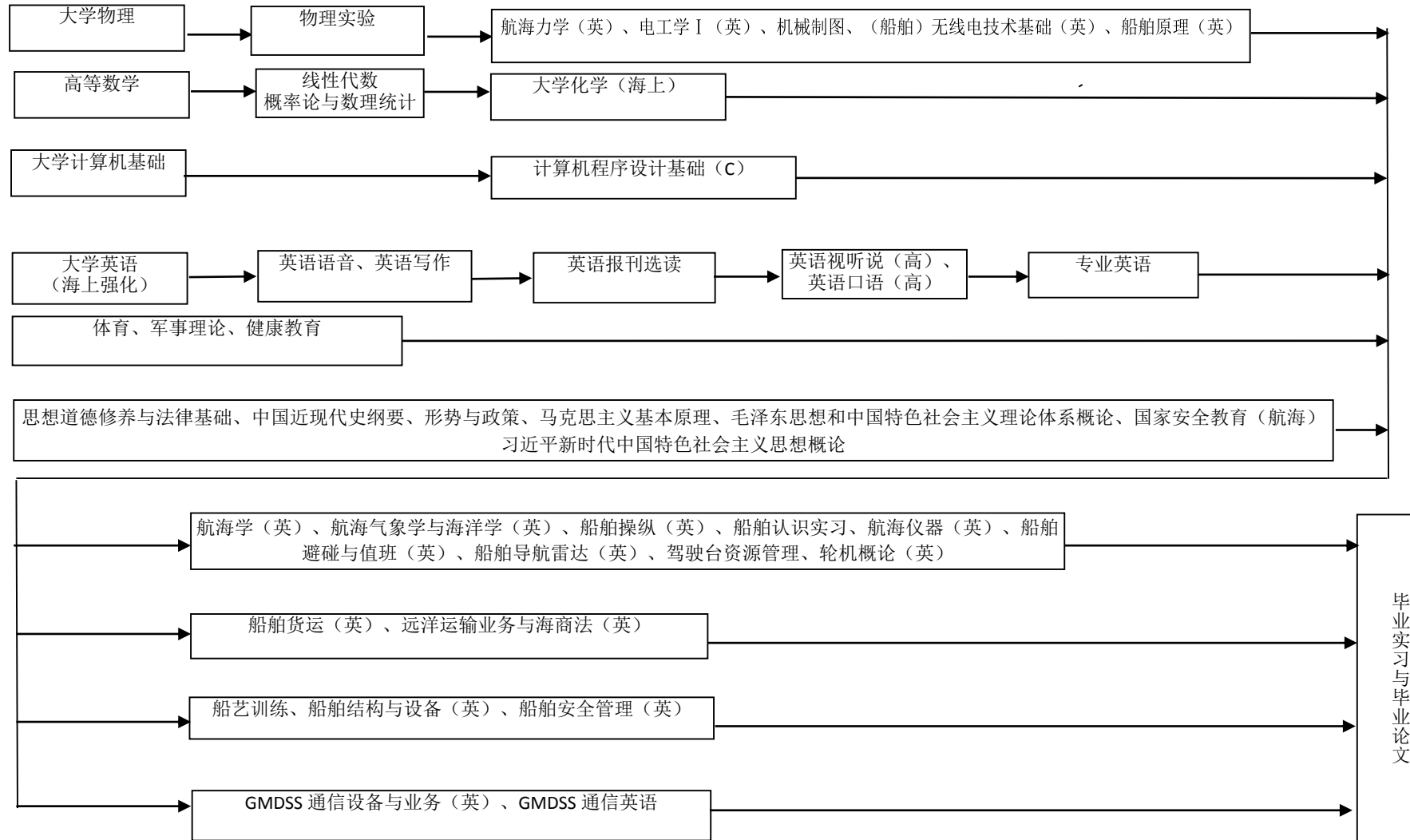
## 航海技术

表6: 航海技术(英语班) 讲座设置及进程

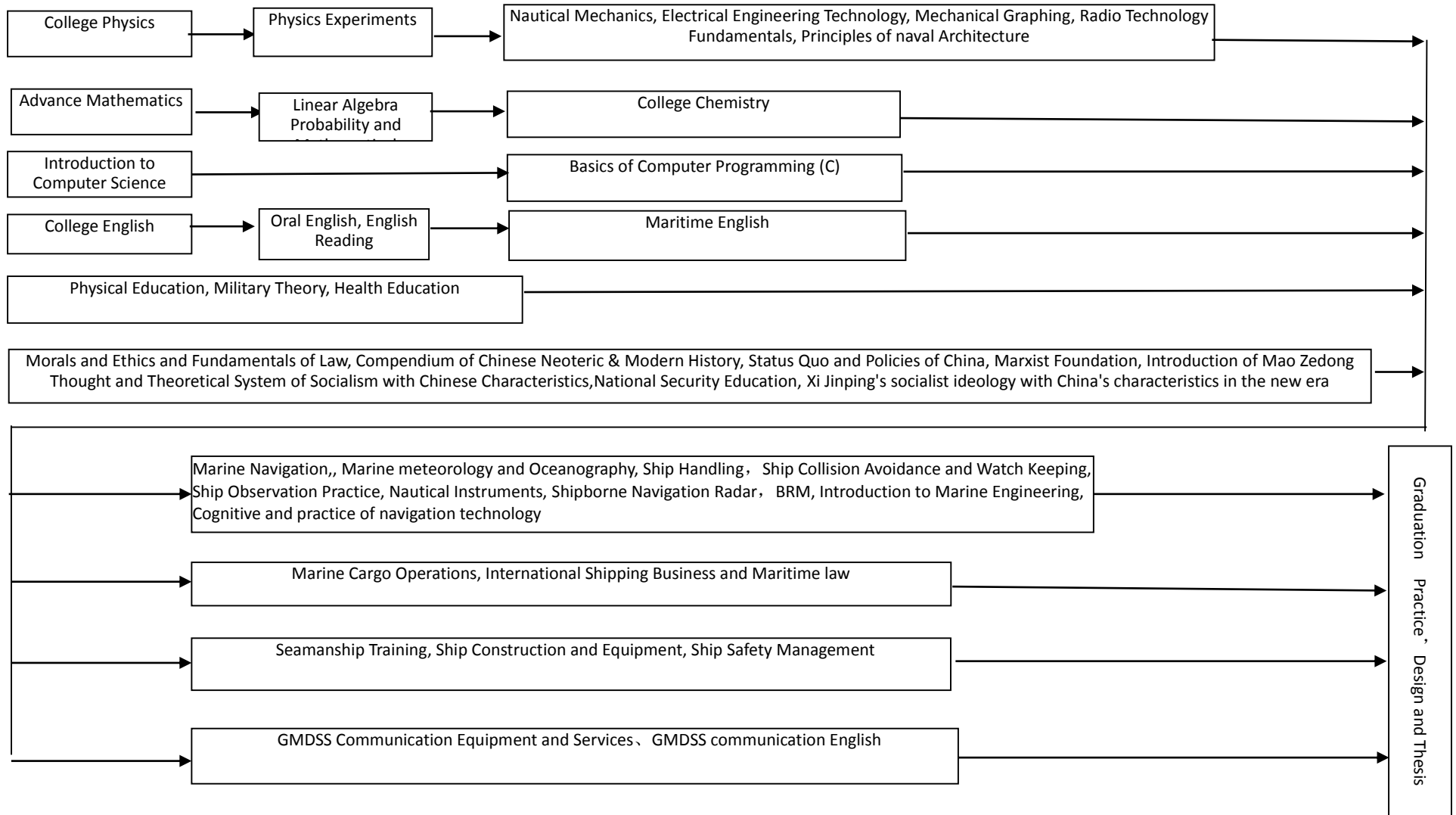
Table6: Nautical Science [English-Emphasized Class] General Lectures System

| 课程性质<br>Course Nature       | 课程类别<br>Course Categories              | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                               | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes                     |                     |     |     |  |         |
|-----------------------------|--|----------------------------------|-----------|---------------------|---|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|---------------------------------|---------------------|-----|-----|--|---------|
|                             |  |                                  |           |                     |   |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |                                 | 第四学年<br>Fourth Term |     |     |  |         |
|                             |  |                                  |           |                     |   |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |                                 | 3-3                 | 4-1 | 4-2 |  |         |
| 必修课程组<br>Compulsory Courses | 必修-讲座和 Seminar<br>Lectures and Seminar |                                  | 1         | 1713000480          | 入学教育<br>Admission Orientations                    | 0             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-1                |     |     |                     |     |     |                    |     |                                 |                     |     |     |  |         |
|                             |  |                                  | 2         | 1713025340          | 形势与政策   | 2             | 考查                     |                        |                | √                       | 64                   | 64             | 0                      | 0               | 0                        | 1-1                | 1-2 | 2-1 | 2-2                 | 3-1 | 3-2 | 4-1                | 4-2 | 4个学年的第1、2学期分别设8学时, 2学分设置在第4-1学期 |                     |     |     |  |         |
|                             |  |                                  | 3         | 1713000520          | 职业生涯规划<br>Career Planning for University Students | 0.5           | 考查                     |                        |                | √                       | 8                    | 8              | 0                      | 0               | 0                        | 1-2                |     |     |                     |     |     |                    |     |                                 |                     |     |     |  |         |
|                             |  |                                  | 4         | 2113000510          | 大学生健康教育<br>Health education of college students   | 1             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-2                |     |     |                     |     |     |                    |     |                                 |                     |     |     |  | 课外学时 16 |
|                             |  |                                  | 5         | 2113000300          | 国家安全教育(航海)<br>National Security Education         | 1             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-3                |     |     |                     |     |     |                    |     |                                 |                     |     |     |  | 小学期课程   |
|                             |  |                                  | 6         | 1713000530          | 就业指导<br>Career Guidance for University Students   | 0.5           | 考查                     |                        |                | √                       | 8                    | 8              | 0                      | 0               | 0                        |                    |     |     |                     |     | 3-1 |                    |     |                                 |                     |     |     |  |         |
| 合计 Total                    |  |                                  |           |                     |   | 5             |                        |                        |                |                         | 128                  | 128            | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |                                 |                     |     |     |  |         |

## 航海技术（英语班）专业选课指导图



### Course Selection Flowchart (English-Emphasized Class)



# 航海技术（实验班）专业本科培养计划（2022）

## Undergraduate Program for Nautical Science Major [Elite Class]

### 一、专业简介

#### I. Program Profile

大连海事大学航海技术专业在国内外享有较高的知名度，1992年入选交通部“八五”首批重点建设学科专业，2006年入选辽宁省高等学校示范专业，2007年入选国家高等学校特色专业建设点，2011年入选辽宁省高等学校综合改革试点专业。航海技术专业本科毕业生具有较强的实践动手能力、英语运用能力、业务能力和良好的团队协作精神，深受港航企事业单位的好评。航海技术专业毕业生就业主要面向各航运公司从事远洋运输工作，部分毕业生到海事局、船级社、引航站或航海类院校等港航企事业单位从事相关工作。

The nautical science in Navigation College, DMU, enjoys a high reputation and popularity both at home and abroad. In 1992, it was selected by Ministry of Transport as one of the National Key-building Disciplines in State's Eighth Five-Year Plan, This Program was rated as one of the demonstration disciplines of tertiary education in Liaoning Province in 2006, selected as one of the Featuring Specialties under national tertiary education construction in 2007, and appointed as one of the trial units for comprehensive reformation in tertiary education of Liaoning Province in 2011. In the nautical science, the students will be trained into high quality and competent mariners. They are professionals with high English level and team-work spirits, and enjoy high reputation in all shipping industries, including shipping companies, port management companies, maritime institutions, maritime safety administrations, classification societies, pilot stations, and maritime colleges and universities

### 二、培养目标

#### II. Program Objectives

本专业培养具备良好的人文素养，扎实的自然科学基础知识和航海技术基本理论，系统掌握船舶航行、货物积载与装卸、船舶作业管理和人员管理、船舶通信等方面的知识和技能，综合素质好、安全与环保意识强、具有国际竞争能力的创新型、研究型的航运业高层次专门人才。毕业生主要从事科学研究和航海教育工作。

The program cultivates high-level innovative and research-based shipping talents who should possess good comprehensive quality, strong consciousness of safety and environment protection, and competitiveness in international shipping industries, with good humanistic accomplishments, as well as:

- ✓ a solid knowledge-base in natural science and theories of nautical science;
- ✓ knowledge and skills in the ship navigation, cargo stowage and handling;
- ✓ ship operation management;
- ✓ human resource management;
- ✓ and shipborne communication.

Graduates of the program are projected to engage in scientific research and maritime education.

## 三、毕业要求

## III. Graduation Requirements

| 毕业要求  | 毕业要求指标点分解  |
|---|--|
| <p><b>毕业要求 1</b></p> <p><b>Graduation Requirement 1</b></p> <p><b>工程知识:</b> 具备将数学、自然科学、工程基础和专业知识应用于航海技术领域复杂工程问题的能力。</p> <p><b>Engineering knowledge:</b> the ability to apply mathematics, natural sciences, engineering fundamentals and expertise to complex engineering issues in the field of nautical science.</p>   | <p>1-1 能够将数学、自然科学、工程基础和专业知识运用到复杂航海技术问题的恰当表述中</p> <p>1-1 to use the mathematics, natural sciences, engineering fundamentals and expertise to the appropriate statements of complex nautical science issues</p> <p>1-2 能够将工程和专业用于航海技术问题的分析、设计、计算、模拟与改进</p> <p>1-2 can be used for engineering and professional knowledge of nautical science problems in the analysis, design, calculation, simulation and improvement</p> <p>1-3 熟悉航海技术行业特点, 具备较好的工程思维和实践技能, 并可应用于解决复杂工程问题。</p> <p>1-3 to familiar with the characteristics of nautical science field, with good engineering thinking and practical skills, and can be applied to solve complex engineering problems.</p> |
| <p><b>毕业要求 2</b></p> <p><b>Graduation Requirement 2</b></p> <p><b>问题分析:</b> 能够应用数学、自然科学和工程科学的基本原理, 识别、表达、并通过文献研究分析复杂航海技术问题, 以获得有效结论。</p> <p><b>Problem Analysis:</b> The basic principles of mathematics, natural sciences and engineering sciences can be applied to identify, express, and analyze complex nautical science problems through literature research to obtain effective conclusions.</p>   | <p>2-1 能够识别和判断复杂航海技术问题的核心特征与关键环节</p> <p>2-1 to identify and determine the core of complex nautical science problems and key links</p> <p>2-2 能够运用基本原理和文献资料辅助正确表达解决复杂航海技术问题的技术方案, 证实解决方案的合理性。</p> <p>2-2 can apply basic principles and document literature to express the technical route to solve complex nautical science problems, and prove the rationality of the technical route.</p>  |
| <p><b>毕业要求 3</b></p> <p><b>Graduation Requirement 3</b></p> <p><b>设计/开发解决方案:</b> 能够设计针对复杂航海技术问题的解决方案, 设计满足特定需求的工作流程, 并能够在设计环节中体现创新意识, 考虑社会、健康、安全、法律、文化以及环境等因素。</p> <p><b>Design / develop solutions:</b> Design solutions for complex nautical science problems, design processes that meet specific needs, and be able to embody innovation awareness in the design process, taking into account social, health, safety, and law, culture and environment and other factors.</p> | <p>3-1 能够进行复杂工程问题的针对性调研, 确定设计目标</p> <p>3-1 be able to carry out complex engineering problems targeted research to determine the design goals</p> <p>3-2 能够在环境、安全、法律、社会、经济等现实约束条件下, 依照相关规则选取工艺单元、系统或流程并进行优选, 体现创新意识</p> <p>3-2 can be in the environment, security, legal, social, economic and other realistic constraints, in accordance with the relevant rules to design working processes that meets specific needs and make optimization, to reflect the sense of innovation</p> <p>3-3 能够对解决方案进行合理计算、评价, 并用图纸、报告等形式呈现</p> <p>3-3 can calculate and evaluate the solution, can use drawings, reports and other forms to show results.</p>                           |
| <p>毕业要求 4</p>   | <p>4-1 针对工程问题的技术验证, 能够制定合理的研究方案</p>  |

|   |   |
|---|---|
| <p>Graduation Requirement 4</p> <p>研究：能够基于科学原理并采用科学方法对复杂航海技术问题进行研究，并能得到合理有效的结论</p> <p><b>Research:</b> It is possible to study complex nautical science problems based on scientific principles and scientific methods, and obtain a rational and effective result.</p>   | <p>4-1 for technical problems of engineering verification, to develop a reasonable research program.</p> <p>4-2 能够基于专业理论，根据对象特征，选择研究路线，设计可行的实验实践方案，获取合理有效的结论</p> <p>4-2 can be based on professional theory, according to the characteristics of the object, select the research route, the design of feasible experimental program, obtain rational and effective results.</p>   |
| <p><b>毕业要求 5</b></p> <p><b>Graduation Requirement5</b></p> <p><b>使用现代工具：</b>能够针对复杂航海技术问题，选择与使用恰当的技术、资源、现代工程工具和信息技术工具，并能够理解其局限性</p> <p><b>The use of modern tools:</b> the ability to select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex nautical science issues, and the ability to understand its limitations</p>   | <p>5-1 能够较为熟练运用现代工程工具和信息技术工具，表达复杂航海技术问题的解决方案，能理解其局限性</p> <p>5-1 can use modern engineering tools and information technology tools to express complex the solution of nautical science problems, and understand its limitations</p> <p>5-2 能够运用文献检索工具，获取复杂航海技术问题的相关信息与技术最新进展</p> <p>5-2 can use literature search tools to obtain relevant information and latest technology development in complex nautical science problems.</p>   |
| <p><b>毕业要求 6</b></p> <p><b>Graduation Requirement6</b></p> <p><b>工程与社会：</b>能够基于工程相关背景知识进行合理分析，评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响，并理解应承担的责任</p> <p><b>Engineering and Society:</b> The ability to conduct a rational analysis based on engineering-related background knowledge, evaluate the impact of professional engineering practices and complex engineering problem solutions on society, health, safety, law and culture, and understand the responsibilities that should be borne</p> | <p>6-1 具有工程实习和社会实践的经历</p> <p>6-1 the experience of engineering practice and social practice</p> <p>6-2 能够识别和分析航海技术实践和复杂工程问题解决方案对社会、健康、安全、文化的影响</p> <p>6-2 the ability to identify and analyze the impact of nautical science practices and complex engineering problem solutions on social, health, safety and culture</p> <p>6-3 熟悉复杂航海技术问题的解决中应遵循的法律法规和职业道德规范，明确承担的责任和义务。</p> <p>6-3 familiar with the complex nautical science problems should be resolved in accordance with the laws and regulations and professional ethics, clearly assume responsibility and obligations.</p> |
| <p><b>毕业要求 7</b></p> <p><b>Graduation Requirement7</b></p> <p><b>环境和可持续发展：</b>能够理解和评价针对复杂航海技术问题的工程实践对环境、社会可持续发展的影响</p> <p><b>Environment and Sustainable Development:</b> The</p>   | <p>7-1 理解环境保护和社会可持续发展的内涵和意义，能够正确评价工程实践活动对环境的影响</p> <p>7-1 understand the environmental protection and social sustainable development of the connotation and significance, can correctly evaluate the engineering practice activities on the environment</p>   |

|   |  |
|---|--|
| <p>ability to understand and evaluate the impact of engineering practices on complex nautical science issues on environmental and social sustainable development</p>  | <p>7-2 能够在复杂工程问题解决方案中体现对节能和环境友好的要求，客观评价解决方案对社会可持续发展的影响</p> <p>7-2 to reflect the energy-saving and environment-friendly requirements in the complex engineering problem solution , objectively evaluate the effects of solutions on social sustainable development.</p>  |
| <p><b>毕业要求 8</b></p> <p><b>Graduation Requirement8</b></p> <p><b>职业规范:</b> 具有人文社会科学素养、社会责任感, 能够在工程实践中理解并遵守工程职业道德和规范, 履行责任</p> <p><b>Professional norms:</b> Have humanities and social science literacy, social responsibility, understand and comply with engineering ethics and norms in engineering practice, to fulfill responsibilities</p>  | <p>8-1 具有正确的人生观、价值观和世界观, 了解国情, 维护国家利益, 具有推动民族复兴和社会进步的责任感</p> <p>8-1 have the correct outlook on life, values and world outlook, understand the national conditions, safeguard national interests, with the promotion of national rejuvenation and social progress of the sense of responsibility</p> <p>8-2 具有人文社会科学素养, 具备履行社会职责的身心条件</p> <p>8-2 have the humanities and social science literacy, have the physical and psychological conditions to fulfill social responsibilities</p> <p>8-3 理解航海技术伦理的核心理念, 在工程实践中自觉遵守职业道德和规范, 具有法律意识</p> <p>8-3 understand the core concept of nautical science ethics, consciously abide by professional ethics and norms in engineering practice, with legal awareness.</p> |
| <p><b>毕业要求 9</b></p> <p><b>Graduation Requirement9</b></p> <p><b>个人和团队:</b> 能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色</p> <p><b>Individuals and Teams:</b> The ability to take on individual, team members, and responsible roles in a multidisciplinary team</p>  | <p>9-1 具有团队协作意识, 具有一定的组织管理能力和较强的自我控制能力、人际交往能力</p> <p>9-1 have a sense of teamwork, with a certain degree of organizational management and strong self-control, interpersonal skills</p> <p>9-2 能够独立完成团队分配的工作, 并与其他团队成员有效沟通, 共享信息</p> <p>9-2 be able to independently complete the work of team distribution, and other members of the effective communication and sharing of information</p> <p>9-3 了解与本专业相关学科等领域的技术衔接, 了解作为团队负责人应具备的素质与能力</p> <p>9-3 understand related disciplines and other areas of technical convergence, Understand the qualities and abilities of a team leader.</p>  |
| <p><b>毕业要求 10</b></p> <p><b>Graduation Requirement10</b></p> <p><b>沟通:</b> 具备一定的国际视野, 能够有效在跨文化背景下进行沟通和交流。能够就复杂工程问题与业界同行及社会公众进行沟通和交流。</p> <p><b>Communication:</b>Have a certain international perspective, to communicate and discuss in cross-cultural background, and theability to communicate and discuss effectively with industry peers and the public on complex engineering issues.</p> | <p>10-1 能够使用英语, 在跨文化背景下进行有效沟通交流</p> <p>10-1be able to use English to communicate in the context of cross-cultural</p> <p>10-2 了解航海技术专业的国际发展趋势、研究热点, 能够通过口头、书面、图表等方式表达思想, 与业界同行及社会公众进行沟通和交流。通过国家主管机关规定的考试和评估, 具备规定的海上资历, 可取得海洋船舶驾驶员相关的适任证书。</p> <p>10-2 to understand the international development trends, research hot spots of nautical science, and express ideas through oral, written, charts, etc., and communicate and</p>  |

|  |  |
|--|--|
|  | discuss effectively with industry peers and the public, pass the required test and assessment by the national authority, possess required sea service, and obtain the relevant competency certificate for officers working on ocean-going ships.   |
| <b>毕业要求 11</b><br><b>Graduation Requirement11</b><br><b>项目管理:</b> 理解工程管理原理与决策方法, 并能在实践中予以应用<br><b>Project management:</b> To understand the principles of project management and decision-making methods, and can be applied in practice.              | 11-1 能够对行业项目的工艺路线、工艺方案进行基本技术经济分析和比较<br>11-1 do technical and economic analysis and have comparison of the technological route and process plan.<br>11-2 了解行业项目的实施过程, 掌握工程项目运营的相关技术与管理知识<br>11-2 understand the project implementation process, master the related technology and management knowledge of engineering project operation.  |
| <b>毕业要求 12</b><br><b>Graduation Requirement12</b><br><b>终身学习:</b> 具有自主学习和终身学习的意识, 有不断学习和适应发展的能力<br><b>Lifelong learning:</b> with independent learning and lifelong learning awareness, have the ability to continue to learn and adapt to development | 12-1 具有自主学习和终身学习意识, 具备终身学习的知识基础, 掌握自主学习的方法, 了解拓展知识和能力的途径<br>12-1 with independent learning and lifelong learning awareness, with a lifelong learning knowledge base, master the way of self-learning, understanding of ways to expand knowledge and ability<br>12-2 能针对个人或职业发展需求, 采用合适的方法, 自主学习, 适应航海技术领域的发展<br>12-2 for personal or career development needs, to use appropriate methods to go on self-learning and adapt to the development of nautical science field. |

#### 四、特色课程

##### IV. Feature Courses

船艺训练、航海学(英)、船舶结构与设备(英)、船舶操纵(英)、船舶避碰与值班(英)、船舶货运(英)、航海气象学与海洋学(英)、船舶安全管理(英)、航海仪器(英)、船舶导航雷达(英)、GMDSS 通信设备与业务(英)、驾驶室资源管理。

Seamanship Training, Marine Navigation, Ship Construction and Equipment, Ship Handling, Ship Collision Avoidance and Watch Keeping, Marine Cargo Operations, Marine meteorology and Oceanography, Ship Safety Management, Nautical Instruments, Shipborne Navigation Radar, GMDSS Communication Equipment and Services, Bridge Resources Management

#### 五、学制与学位

##### V. Duration and Degree

学制: 4 年

Program Duration: 4 years

授予学位: 工学学士学位

Degree conferred: Bachelor of Engineering

#### 六、学分要求

##### VI. Credit Requirement

193.5 学分

193.5 Credit

七、课程体系与毕业培养要求的对应关系矩阵

VII. The course system and the requirements of the graduate relation matrix

| 序号 | 毕业要求指标点<br>课程名称          | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|--------------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                          | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 1  | 专业导论 (航海技术)              | M     |     |     |       |     |       |     |     |       |     |       | M   |       |     | L   |       | M   |       | L   |     |       |     | H   |        |      |        |      | H      |      |
| 2  | 入学教育                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | M   | M     |     | H   |        |      | M      | H    |        |      |
| 3  | 形势与政策                    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 4  | 军事理论                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 5  | 军事训练                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 6  | 体 育                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 7  | 马克思主义基本原理                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 8  | 中国近现代史纲要                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 9  | 毛泽东思想和中国特色<br>社会主义理论体系概论 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 10 | 习近平新时代中国特色社会主义思想概论       |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 11 | 思想道德修养与<br>法律基础          |       |     |     |       |     |       |     |     |       |     |       | M   | M     | M   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 12 | 逻辑学                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 13 | 高等数学                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 14 | 线性代数                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 15 | 大学物理                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 16 | 大学物理实验                   |       |     |     | M     | M   |       |     | H   | H     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 17 | 大学化学 (海上)                |       | H   |     |       |     | M     | M   | M   |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 18 | 实用写作                     |       |     |     |       |     |       |     |     |       |     |       |     |       | M   | M   |       |     |       |     |     |       |     |     |        |      |        |      |        | M    |
| 19 | 大学英语 (含口语、听说)            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |

## 航海技术

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |   |   |   |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|---|---|---|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |   |   |   |
| 20 | 航海英语 (初、中、高级)   |       |     |     |       |     |       |     |     |       |     | H     |     |       |     |     |       |     |       | H   |     |       | H   |     |        |      | H      | H    |        |      | M | M |   |
| 21 | 大学英语写作          |       |     |     |       |     |       |     |     | M     | M   | L     | H   |       |     |     |       |     |       |     |     |       |     |     |        |      | H      | H    |        |      |   | M |   |
| 22 | 大学计算机基础         |       |     |     |       |     |       |     |     |       |     | H     | H   |       |     |     |       |     |       |     |     |       |     |     |        | M    | M      |      |        |      |   |   |   |
| 23 | 计算机程序设计基础 (C语言) |       |     |     |       |     |       |     |     |       |     | H     | H   |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 24 | Python 数据分析     |       | H   |     |       |     |       |     |     | H     |     | H     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 25 | MATLAB 语言与可视化仿真 |       | H   |     |       | H   |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 26 | 电工学 1 (英)       | H     |     |     |       |     |       | M   |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 27 | 机械制图            |       | H   |     |       |     |       |     | M   | M     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 28 | 航海力学 (英)        |       | H   |     |       |     |       | M   |     |       |     |       | L   |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 29 | (船舶)无线电技术基础 (英) | H     | M   |     |       |     |       | M   |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |   |   |
| 30 | 航海专业数学 (英)      | H     | M   | H   |       |     | M     |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        |      |   |   |   |
| 31 | 船舶原理 (英)        | H     | H   | H   |       |     | M     |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      | L |   |   |
| 32 | 远洋业务与海商法 (英)    |       |     |     |       |     |       | L   |     |       |     |       |     |       |     | M   | M     | M   |       |     |     |       | M   |     |        |      |        |      |        | L    |   |   |   |
| 33 | 航海气象学与海洋学 (英)   | L     |     |     |       | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      | H      |      |   | L |   |
| 34 | 船舶货运 (英)        | H     | H   | M   |       |     | H     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        |      |   |   |   |
| 35 | 轮机概论 (英)        | L     |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        | H    |   |   | L |
| 36 | 航海英语会话与评估       |       |     |     |       |     |       |     |     |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     |     |        |      |        | H    | H      |      |   |   |   |
| 37 | 船艺训练            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      | M      | M    |   |   | M |
| 38 | 船舶结构与设备 (英)     |       | H   | H   | H     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        | H    |   |   | H |

大连海事大学本科专业培养计划

| 序号 | 毕业要求指标点<br>课程名称      | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|----------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                      | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 39 | 航海学(英)               | M     | M   | H   | H     | M   | M     | L   | L   | L     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 40 | 电子海图显示与信息系<br>统(英)   |       | H   | H   | H     |     |       | M   |     |       | H   | M     |     |       | L   |     |       |     |       | L   |     |       | M   |     | M      |      |        | L    |        |      |
| 41 | 船舶避碰与值班(英)           |       | H   | H   | H     |     |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 42 | 船舶操纵(英)              |       | H   | H   | H     |     |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 43 | 船舶导航雷达(英)            | M     |     |     |       |     |       |     |     | M     | M   |       |     | M     | M   | L   |       |     |       | M   |     |       |     |     | H      |      |        | M    |        |      |
| 44 | 船舶安全管理(英)            |       |     |     |       |     |       | M   |     |       |     |       |     | L     | M   | M   | H     | M   | M     | H   | H   | M     |     |     | H      |      |        |      |        |      |
| 45 | 航海仪器(英)              | M     | H   |     |       |     |       |     |     |       | H   | M     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 46 | GMDSS 通信设备与业务<br>(英) |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 47 | 海事调查与案例分析<br>(英)     | H     |     |     |       | H   |       |     |     |       |     |       |     |       | H   |     |       |     |       | H   |     |       |     |     |        |      |        |      |        |      |
| 48 | 船员心理学                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | L   |       |     |     |        |      |        |      |        |      |
| 49 | 海洋船舶气象定线             | M     |     |     |       | M   |       |     |     |       |     |       |     |       |     | M   |       |     |       |     |     |       |     |     | L      |      |        | L    |        |      |
| 50 | 中国海员史                |       |     |     |       |     |       |     |     |       |     |       |     |       |     | M   |       |     | H     |     |     | L     |     |     |        |      |        | M    |        |      |
| 51 | 概率论与数理统计             | M     | M   | M   | H     | H   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 52 | 复变函数与积分变换            | M     | M   | M   | H     | H   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 53 | 计算方法                 | H     |     |     | M     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        |      |
| 54 | 运筹学                  | H     |     |     | M     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        |      |
| 55 | 信号与系统                | M     | M   |     |       |     | H     |     |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        |      |
| 56 | 数据结构                 | M     | M   |     |       |     | H     |     |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    |        |      |
| 57 | 船舶建模与控制              | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    | H      |      |
| 58 | 智能航海导论               | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    | H      |      |

## 航海技术

| 序号 | 毕业要求指标点<br>课程名称    | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |  |  |
|----|--------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|--|--|
|    |                    | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |  |  |
| 59 | 物联网与船联网技术          | M     | M   |     |       |     | H     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |  |
| 60 | 航运大数据技术与应用         | M     | M   |     |       |     | H     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |  |
| 61 | 智能船岸基支持系统与<br>远程控制 | M     | M   |     |       |     | H     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |  |  |
| 62 | 特种货物运输（英）          |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |  |  |
| 63 | LNG 船货物运输（英）       |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |  |  |
| 64 | 国际海事发展动态（英）        |       |     |     |       | M   |       |     |     |       |     |       |     |       |     | L   | L     |     |       |     |     |       |     |     |        |      |        |      |        |      |  |  |
| 65 | 海事管理概论             | M     | M   | M   |       |     |       |     |     |       |     | M     |     |       |     |     |       |     |       | M   |     |       |     |     |        |      |        |      |        | L    |  |  |
| 66 | 船舶认识实习             |       |     | M   | L     |     |       |     |     |       |     |       | H   | L     | L   | L   | M     |     |       | M   | M   |       |     |     | H      | L    |        |      |        |      |  |  |
| 67 | 精通救生艇筏和救助艇         |       |     | M   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |  |
| 68 | 精通急救               |       |     | M   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |  |
| 69 | 熟悉与基本安全            |       |     | M   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |  |
| 70 | 高级消防               |       |     | M   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |  |
| 71 | 船舶保安               |       |     | M   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       | M   | M   |       |     | H   |        |      |        |      |        |      |  |  |
| 72 | 货物积载与系固            |       |     | M   |       |     |       | M   |     |       |     |       |     |       |     |     |       |     |       | M   | M   |       |     | H   | H      |      |        |      |        |      |  |  |
| 73 | 航线设计               |       | M   | H   |       |     | M     | M   |     |       |     |       |     |       |     | M   | M     |     |       | M   | M   |       |     | H   | M      | H    |        |      |        |      |  |  |
| 74 | 驾驶台资源管理            |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       | H   | H   |       | H   | H   | H      |      |        |      |        |      |  |  |
| 75 | GMDSS 设备操作         |       |     | H   |       |     |       | M   |     |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |  |  |
| 76 | 雷达操作与应用            | M     |     |     | H     |     |       | M   |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |  |  |
| 77 | 国家安全教育（航海）         |       |     |     |       |     |       |     |     |       |     |       | H   | H     | H   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |  |  |
| 78 | 公益劳动               |       |     |     |       |     |       |     |     |       |     |       | H   |       |     | H   |       | H   | M     |     | M   | L     |     |     |        |      |        |      |        |      |  |  |
| 79 | 大学生健康教育            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       | H   | H   | H     | H   | H   |        |      |        |      |        |      |  |  |

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 80 | 职业生涯规划          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      | H      | H    |
| 81 | 就业指导            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 82 | 毕业实习及毕业论文       |       |     |     |       |     | H     | H   | H   | H     | H   |       | H   |       |     |     | M     | M   |       |     |     |       |     |     |        |      | H      |      | H      | H    |

注：关联度强的用“H”表示，关联度中等的用“M”表示，关联度弱的用“L”表示。

Note: The degree of correlation should be marked as "H"(high), "M"(medium) and "L"(low).

## 八、教学计划进度表

参见表 1~表 6  
Curriculum Structure  
Refer to Table1~Table6.

表 1: 航海技术(实验班)课程设置及学分安排

Table1: Nautical Science [Elite Class] Curriculum and Credits

| 课程分类<br>Course<br>Categories | 理论课程 (156.5 学分)<br>In-class Teaching Courses (156.5 credits) |                               |  |  | 集中实践环节 (32 学分)<br>Centralized Practicum<br>(32 credits) |                               | 讲座 (5 学分)<br>Lectures and Seminars<br>(5 credits) |                               | 总计    |  |
|------------------------------|--|-------------------------------|--|--|---|-------------------------------|---|-------------------------------|-------|--|
|                              | 必修<br>Compulsory   | 限选<br>Restrictive<br>Optional | 任选<br>Free Optional  |  | 必修<br>Compulsory  | 限选<br>Restrictive<br>Optional | 必修<br>Compulsory                                  | 限选<br>Restrictive<br>Optional |       |  |
| 学分<br>Credits                | 140.5  | 8                             | 8  |  | 32  | 0                             | 5   | 0                             | 193.5 |  |
| 占理论课学分百分比<br>Percentage      | 89.21  | 5.08                          | 5.08   |  |   |                               |   |                               |       |  |
| 实验上机环节学分                     | 独立实验上机学分   | 课内实<br>验上机<br>学分              | 限选<br>必<br>选课<br>的<br>独<br>立<br>实<br>验<br>上<br>机<br>学<br>分 | 限选<br>必<br>选课<br>的<br>课<br>内<br>实<br>验<br>上<br>机<br>学<br>分 |   |                               |   |                               |       |  |
|                              |  |                               | 0  | 0  |   |                               |   |                               |       |  |
| 实践环节占学分百分比%                  |  |                               |  |  | 26.42   |                               |   |                               |       |  |

注: 实践环节学分占总学分百分比=【(课内实践+课内实验+课内上机)学时/16+(独立实验+独立上机)学时/24+集中实践性教学学分】/总学分\*100%

Note: Percentage of Practice = 【(In-class practice+ In-class Experiment + In-class Operation) Credits/16+(Independent Experiment+ Independent Operation) Credits/24+Centralizing Practical Teaching Credits】/Total Credits\*100%

表 2: 航海技术(实验班)必修课程设置及进程

Table2: Nautical Science [Elite Class] Curriculum of Compulsory Courses

| 课程性质<br>Course<br>Nature | 课程类别<br>Course<br>Categories | 类别备注<br>Course<br>Categor<br>ies<br>Remark | 序号<br>No. | 课程编号<br>Course<br>Code | 课程名称<br>Course<br>Name  | 学分<br>Credits | 考核方<br>式<br>Testin<br>g<br>method | 是否学<br>位课<br>Degree<br>Course | 是否核<br>心课程<br>CORE<br>COURSE | 是否必<br>选<br>Required<br>Course | 学时<br>Teaching Hours |                    |                            |                 |                                 | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                        |     |     |  |  |  |  |  |  |  |  |  |  |            |
|--------------------------|------------------------------|--|-----------|------------------------|-------------------------|---------------|-----------------------------------|-------------------------------|------------------------------|--------------------------------|----------------------|--------------------|----------------------------|-----------------|---------------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|------------------------|-----|-----|--|--|--|--|--|--|--|--|--|--|------------|
|                          |                              |  |           |                        |                         |               |                                   |                               |                              |                                | 合计<br>Total          | 讲课<br>Lecture<br>s | 实验<br>Laborator<br>y Hours | 实践<br>Practicum | 上机<br>Computer<br>Operatio<br>n | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth<br>Term |     |     |  |  |  |  |  |  |  |  |  |  |            |
|                          |                              |  |           |                        |                         |               |                                   |                               |                              |                                |                      |                    |                            |                 |                                 | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                    | 4-1 | 4-2 |  |  |  |  |  |  |  |  |  |  |            |
| 必修课                      | 必修-公共                        |  | 1         | 1713000010             | 军事理论<br>Military Theory | 2             | 考查                                |                               |                              | √                              | 32                   | 32                 | 0                          | 0               | 0                               | 1-1                |     |     |                     |     |     |                    |     |             |                        |     |     |  |  |  |  |  |  |  |  |  |  | 课外学<br>时 4 |

大连海事大学本科专业培养计划

|                            |  |    |            |   |   |    |   |   |    |    |    |   |    |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|----------------------------|--|----|------------|---|---|----|---|---|----|----|----|---|----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|
| 组<br>Compulsory<br>Courses | 基础及通识教育课<br>Public basic and general education courses | 2  | 1713000025 | 体育(1)(海上)<br>Physical Education                             | 1 | 考查 | √ | √ | 28 | 0  | 28 | 0 | 0  | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 3  | 1713000081 | 高等数学(B-1)<br>Advanced Mathematics                           | 4 | 考试 | √ | √ | 64 | 64 | 0  | 0 | 0  | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 4  | 1713000350 | 大学计算机基础<br>Introduction to College Computer Science         | 2 | 考试 | √ | √ | 32 | 10 | 0  | 0 | 22 | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 5  | 1713019280 | 中国近现代史纲要<br>Compendium of Chinese Neoteric & Modern History | 3 | 考试 | √ | √ | 48 | 40 | 0  | 8 | 0  | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 6  | 2113000221 | 大学英语(海上)<br>College English                                 | 3 | 考试 | √ | √ | 48 | 32 | 0  | 0 | 16 | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 7  | 1713000026 | 体育(2)(海上)<br>Physical Education                             | 1 | 考查 | √ | √ | 40 | 0  | 32 | 8 | 0  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 8  | 1713000082 | 高等数学(B-2)<br>Advanced Mathematics                           | 6 | 考试 | √ | √ | 96 | 96 | 0  | 0 | 0  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 9  | 1713000191 | 大学物理实验(1)<br>Physics Experiment                             | 1 | 试内 |   | √ | 24 | 0  | 24 | 0 | 0  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 10 | 1713000370 | 计算机程序设计基础(C)<br>Basics of Computer Programming(C)           | 3 | 试内 |   | √ | 48 | 24 | 0  | 0 | 24 |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 11 | 1713000410 | 逻辑学<br>Logic  | 1 | 考查 |   | √ | 16 | 16 | 0  | 0 | 0  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 12 | 1713025360 | 思想道德与法治   | 3 | 考试 | √ | √ | 48 | 40 | 0  | 8 | 0  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 13 | 1713025581 | 大学物理(A-1)<br>University Physics                             | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 14 | 2113000222 | 大学英语(海上)<br>College English                                 | 3 | 考试 | √ | √ | 48 | 32 | 0  | 0 | 16 |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |     |
|                            |  | 15 | 1713000027 | 体育(3)(海上)<br>Physical Education                             | 1 | 考查 | √ | √ | 36 | 0  | 36 | 0 | 0  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2-1 |
|                            |  | 16 | 1713000050 | 马克思主义基本原理<br>Basic Tenets of Marxism                        | 3 | 考试 | √ | √ | 48 | 40 | 0  | 8 | 0  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2-1 |
|                            |  | 17 | 1713000120 | 线性代数(B)<br>Linear Algebra                                   | 2 | 考试 |   | √ | 32 | 32 | 0  | 0 | 0  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2-1 |

## 航海技术

|  |  |  |    |            |   |   |    |   |   |    |    |    |   |   |  |  |     |     |     |  |     |  |  |  |     |  |
|--|--|--|----|------------|---|---|----|---|---|----|----|----|---|---|--|--|-----|-----|-----|--|-----|--|--|--|-----|--|
|  |  |  | 18 | 1713000130 | 概率论与数理统计<br>Probability Theory & Mathematical Statistics  | 3 | 考试 |   | √ | 48 | 48 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |     |  |  |  |     |  |
|  |  |  | 19 | 1713000192 | 大学物理实验(2)<br>Physics Experiment   | 1 | 考查 |   | √ | 24 | 0  | 24 | 0 | 0 |  |  | 2-1 |     |     |  |     |  |  |  |     |  |
|  |  |  | 20 | 1713022340 | 大学化学(海上)<br>College Chemistry   | 2 | 考试 |   | √ | 32 | 32 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |     |  |  |  |     |  |
|  |  |  | 21 | 1713025582 | 大学物理(A-2)<br>University Physics   | 4 | 考试 |   | √ | 64 | 64 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |     |  |  |  |     |  |
|  |  |  | 22 | 2113000223 | 大学英语(海上)<br>College English   | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |     |  |  |  |     |  |
|  |  |  | 23 | 1713000028 | 体育(4)(海上)<br>Physical Education   | 1 | 考查 | √ | √ | 40 | 0  | 32 | 8 | 0 |  |  |     | 2-2 |     |  |     |  |  |  |     |  |
|  |  |  | 24 | 1713000240 | 英语初级口语<br>Elementary Oral English   | 1 | 考试 |   | √ | 32 | 32 | 0  | 0 | 0 |  |  |     | 2-2 |     |  |     |  |  |  |     |  |
|  |  |  | 25 | 1713026100 | 毛泽东思想和中国特色社会主义理论体系概论<br>Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0 |  |  |     | 2-2 |     |  |     |  |  |  |     |  |
|  |  |  | 26 | 2113000224 | 大学英语(海上)<br>College English   | 3 | 考试 |   | √ | 48 | 48 | 0  | 0 | 0 |  |  |     | 2-2 |     |  |     |  |  |  |     |  |
|  |  |  | 27 | 2113000580 | 实用写作<br>Factual writing:  | 1 | 考查 |   | √ | 16 | 16 | 0  | 0 | 0 |  |  |     |     | 2-3 |  |     |  |  |  |     |  |
|  |  |  | 28 | 1713000140 | 复变函数与积分变换<br>Complex Function and Integral Transformation   | 3 | 考试 |   | √ | 48 | 48 | 0  | 0 | 0 |  |  |     |     |     |  | 3-1 |  |  |  |     |  |
|  |  |  | 29 | 1713022040 | 习近平新时代中国特色社会主义思想概论<br>An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         | 3 | 考试 |   | √ | 48 | 40 | 0  | 8 | 0 |  |  |     |     |     |  |     |  |  |  | 3-2 |  |

大连海事大学本科专业培养计划

|   |   |            |   |     |    |   |   |    |    |    |   |    |   |  |  |     |     |  |  |  |  |  |  |     |     |     |
|---|---|------------|---|-----|----|---|---|----|----|----|---|----|---|--|--|-----|-----|--|--|--|--|--|--|-----|-----|-----|
| 必修-专业<br>(类)基础课<br>Disciplinary Courses | 1 | 1713010180 | 机械制图<br>Mechanical Graphing                                     | 2   | 考查 |   | √ | 32 | 28 | 4  | 0 | 0  |   |  |  | 2-1 |     |  |  |  |  |  |  |     |     |     |
|   | 2 | 1713016220 | (船舶)无线电技术基础(英)<br>(Ship) Radio Technology Fundamentals          | 3   | 考试 |   | √ | 48 | 40 | 8  | 0 | 0  |   |  |  | 2-1 |     |  |  |  |  |  |  |     |     |     |
|   | 3 | 1713016230 | 电工学 I (英)<br>Electrical Engineering Technology                  | 2   | 考试 | √ | √ | 32 | 28 | 4  | 0 | 0  |   |  |  | 2-1 |     |  |  |  |  |  |  |     |     |     |
|   | 4 | 1713016260 | 航海力学(英)<br>Nautical Mechanics                                   | 2   | 考试 |   | √ | 32 | 26 | 6  | 0 | 0  |   |  |  | 2-1 |     |  |  |  |  |  |  |     |     |     |
|   | 5 | 1713025620 | 航海专业数学<br>Mathematics for Marine Navigation                     | 2.5 | 考试 |   | √ | 40 | 40 | 0  | 0 | 0  |   |  |  | 2-1 |     |  |  |  |  |  |  |     |     |     |
|   | 6 | 1713016250 | 船舶原理(英)<br>Principles of naval Architecture                     | 3   | 考试 | √ | √ | √  | 48 | 48 | 0 | 0  | 0 |  |  |     |     |  |  |  |  |  |  | 3-1 |     |     |
| 必修-专业<br>及方向课程<br>Stream Courses        | 1 | 1713016270 | 远洋业务与海商法(英)<br>International Shipping Business and Maritime Law | 4   | 考试 | √ | √ | 64 | 60 | 0  | 4 | 0  |   |  |  |     |     |  |  |  |  |  |  |     | 4-1 |     |
|   | 2 | 1713016340 | 高级航海英语<br>Advanced Maritime English                             | 2.5 | 考试 | √ | √ | 40 | 40 | 0  | 0 | 0  |   |  |  |     |     |  |  |  |  |  |  |     |     | 4-1 |
|   | 3 | 1713016370 | 航海学下(英)<br>Marine Navigation                                    | 3   | 考试 | √ | √ | √  | 48 | 42 | 0 | 6  | 0 |  |  |     |     |  |  |  |  |  |  |     |     | 4-1 |
|   | 4 | 1713016380 | 电子海图显示与信息系统(英)<br>ECDIS   | 2   | 考试 | √ | √ | √  | 32 | 12 | 0 | 20 | 0 |  |  |     |     |  |  |  |  |  |  |     |     | 4-1 |
|   | 5 | 1713016280 | 航海气象学与海洋学(英)<br>Marine Meteorology and Oceanography             | 3   | 考试 | √ | √ | √  | 48 | 42 | 6 | 0  | 0 |  |  |     | 2-2 |  |  |  |  |  |  |     |     |     |

## 航海技术

|    |            |  |     |    |   |   |   |    |    |   |    |   |  |  |  |  |  |  |     |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----|------------|--|-----|----|---|---|---|----|----|---|----|---|--|--|--|--|--|--|-----|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 6  | 1713016360 | 航海学上(英)<br>Marine Navigation   | 5   | 考试 | √ | √ | √ | 80 | 74 | 0 | 6  | 0 |  |  |  |  |  |  | 2-2 |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7  | 1713016300 | 轮机概论(英)<br>Introduction to<br>Marine<br>Engineering                        | 2   | 考查 |   |   | √ | 32 | 26 | 6 | 0  | 0 |  |  |  |  |  |  |     |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8  | 1713016320 | 初级航海英语<br>Elementary<br>Maritime English                                   | 3.5 | 考试 | √ |   | √ | 56 | 56 | 0 | 0  | 0 |  |  |  |  |  |  |     |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9  | 1713016350 | 船舶结构与设备<br>(英)<br>Ship Construction<br>and Equipment                       | 3   | 考试 | √ | √ | √ | 48 | 40 | 8 | 0  | 0 |  |  |  |  |  |  |     |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 1713016390 | 船舶操纵(英)<br>Ship Handling   | 3   | 考试 | √ | √ | √ | 48 | 48 | 0 | 0  | 0 |  |  |  |  |  |  |     |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 1713016420 | 航海仪器(英)<br>Nautical<br>Instruments   | 4   | 考试 | √ | √ | √ | 64 | 46 | 0 | 18 | 0 |  |  |  |  |  |  |     |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 1713016430 | GMDSS 通信设备与<br>业务(英)<br>GMDSS<br>Communication<br>Equipment and<br>Service | 4   | 考试 | √ | √ | √ | 64 | 64 | 0 | 0  | 0 |  |  |  |  |  |  |     |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 1713016290 | 船舶货运(英)<br>Marine Cargo<br>Operations                                      | 4   | 考试 | √ | √ | √ | 64 | 64 | 0 | 0  | 0 |  |  |  |  |  |  |     |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 1713016310 | 航海英语会话与评<br>估<br>Maritime English<br>Listening and<br>Speaking             | 1   | 考查 |   |   | √ | 16 | 8  | 0 | 8  | 0 |  |  |  |  |  |  |     |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 1713016330 | 中级航海英语<br>Intermediate<br>Maritime English                                 | 3.5 | 考试 | √ |   | √ | 56 | 56 | 0 | 0  | 0 |  |  |  |  |  |  |     |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 1713016400 | 船舶导航雷达(英)<br>Shipborne<br>Navigation Radar                                 | 2   | 考试 | √ | √ | √ | 32 | 32 | 0 | 0  | 0 |  |  |  |  |  |  |     |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## 航海技术

|   |                                     |            |   |   |     |    |  |  |    |    |    |    |   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|-------------------------------------|------------|---|---|-----|----|--|--|----|----|----|----|---|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 限选-公共基础及通识教育课<br>Public basic and general education courses | 1                                   | 1713016450 | 大学英语写作<br>College English Writing   | 1   | 考试  |    |  |  | 16 | 16 | 0  | 0  | 0 | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 2                                   | 1713016460 | 英语语音<br>English Pronunciation   | 1   | 考试  |    |  |  | 16 | 16 | 0  | 0  | 0 | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 3                                   | 1713025590 | Python 数据分析<br>Data Analysis with Python  | 2   | 考查  |    |  |  | 32 | 16 | 16 | 0  | 0 | 1-2 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 4                                   | 1713025600 | MATLAB 语言与可视化仿真<br>MATLAB Language and Visual Simulation                          | 2   | 考查  |    |  |  | 32 | 16 | 16 | 0  | 0 | 1-2 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 5                                   | 1713016470 | 大学英语视听说 (高级)<br>College English Viewing, Listening, and Speaking (Advanced Level) | 2   | 考试  |    |  |  | 32 | 32 | 0  | 0  | 0 | 2-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 6                                   | 1713012100 | 计算方法<br>Computing Method  | 2   | 考试  |    |  |  | 32 | 24 | 0  | 0  | 8 | 2-2 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 7                                   | 1713016920 | 运筹学<br>Operations Research  | 3   | 考试  |    |  |  | 48 | 48 | 0  | 0  | 0 | 2-2 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 8                                   | 1713016480 | 英语口语 (高级)<br>Spoken English (Advanced)  | 2   | 考试  |    |  |  | 32 | 32 | 0  | 0  | 0 | 3-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 限选-专业(类)基础课<br>Disciplinary Courses | 1          | 1713018510  | 专业导论 (航海)<br>Introduction of Profession   | 0.5 | 考查 |  |  |    | 8  | 8  | 0  | 0 | 0   | 1-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |                                     | 2          | 1713016630  | 数据结构<br>Data Structure                    | 2.5 | 考试 |  |  |    | 40 | 28 | 0  | 0 | 12  | 4-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |                                     | 3          | 1713015450  | 信号与系统<br>Signal and System                | 2   | 考试 |  |  |    | 32 | 22 | 10 | 0 | 0   | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   | 限选-专业及方向课程<br>Stream Courses        | 1          | 1713022430  | 中国海员史<br>the History of Chinese Seafarers | 2   | 考查 |  |  |    | 32 | 32 | 0  | 0 | 0   | 1-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |                                     | 2          | 1713016510  | 特种货物运输 (英)<br>Special Cargoes Operations  | 2   | 考查 |  |  |    | 32 | 32 | 0  | 0 | 0   | 4-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

大连海事大学本科专业培养计划

|                 |  |  |   |            |  |             |    |  |  |  |            |            |           |           |           |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     |     |  |  |  |  |
|-----------------|--|--|---|------------|--|-------------|----|--|--|--|------------|------------|-----------|-----------|-----------|--|-----|--|--|--|--|--|--|--|--|--|--|--|-----|-----|-----|--|--|--|--|
|                 |  |  | 3 | 1713016520 | LNG 船货物运输<br>(英)<br>Cargo Operations<br>of LNG Carriers                  | 2           | 考查 |  |  |  | 32         | 16         | 0         | 16        | 0         |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     | 4-1 |  |  |  |  |
|                 |  |  | 4 | 1713016060 | 船员心理学<br>Psychology for<br>Seafarers                                     | 1.5         | 考查 |  |  |  | 24         | 24         | 0         | 0         | 0         |  | 1-2 |  |  |  |  |  |  |  |  |  |  |  |     |     |     |  |  |  |  |
|                 |  |  | 5 | 1713016070 | 海洋船舶气象定线<br>Weather Routing<br>of Ship                                   | 1           | 考查 |  |  |  | 16         | 12         | 4         | 0         | 0         |  |     |  |  |  |  |  |  |  |  |  |  |  | 3-1 |     |     |  |  |  |  |
|                 |  |  | 6 | 1713016500 | 国际海事发展动态<br>(英)<br>Development of<br>International<br>Maritime Issues    | 1           | 考查 |  |  |  | 16         | 16         | 0         | 0         | 0         |  |     |  |  |  |  |  |  |  |  |  |  |  | 3-1 |     |     |  |  |  |  |
|                 |  |  | 7 | 1713022080 | GMDSS 通信英语<br>GMDSS Service  | 2           | 考试 |  |  |  | 32         | 28         | 4         | 0         | 0         |  |     |  |  |  |  |  |  |  |  |  |  |  | 3-1 |     |     |  |  |  |  |
|                 |  |  | 8 | 1713016140 | 海事管理概论<br>Introduction to<br>Maritime<br>Administration                  | 1           | 考查 |  |  |  | 16         | 16         | 0         | 0         | 0         |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-2 |     |  |  |  |  |
|                 |  |  | 9 | 1713016490 | 海事调查与案例分<br>析(英)<br>Investigation and<br>Analysis of<br>Marine Accidents | 1           | 考查 |  |  |  | 16         | 16         | 0         | 0         | 0         |  |     |  |  |  |  |  |  |  |  |  |  |  |     | 3-2 |     |  |  |  |  |
| <b>合计 Total</b> |  |  |   |            |  | <b>40.5</b> |    |  |  |  | <b>648</b> | <b>562</b> | <b>50</b> | <b>16</b> | <b>20</b> |  |     |  |  |  |  |  |  |  |  |  |  |  |     |     |     |  |  |  |  |

表 4: 航海技术(实验班)任选课程设置及进程

Table4: Nautical Science [Elite Class] Free Electives System

1. 全校性选修课程分为人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程及其他课程。其中, 1) 必修课不设“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。2) 必修课设置“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。具体课程见每年度选课系统中的全校选修课程一览。  
The elective courses are divided into “humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses” and “other courses”. Among them, 1) The majors without “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. 2) The majors with “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. For specific courses, please refer to the list of elective courses in the course selection system of each year.

2. 学生参加学校、院系组织的第二课堂活动, 并符合学校有关学籍管理规定, 可获得相应任选课学分, 具体参考学生手册中的学籍管理规定部分。  
If students participate in the second classroom activities organized by the school and departments, and meet the school’s relevant regulations on student status management, they can obtain corresponding optional course credits. For details, please refer to the regulations on student status management in the student handbook.

表 5: 航海技术(实验班) 实践环节课程设置及进程

Table5: Nautical Science [Elite Class] Practical Training System

| 课程性质<br>Course Nature      | 课程类别<br>Course Categories | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                                  | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |         |     |     |       |
|----------------------------|---------------------------|----------------------------------|-----------|---------------------|--|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|---------|-----|-----|-------|
|                            |                           |                                  |           |                     |  |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |         |     |     |       |
|                            |                           |                                  |           |                     |  |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1     | 4-2 |     |       |
| 必修课组<br>Compulsory Courses | 必修-实践环节<br>Practicum      |                                  | 1         | 1713000450          | 公益劳动<br>Labor Week                                   | 0             | 考查                     |                        |                | √                       | 0                    | 0              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                     | 课外学时 32 |     |     |       |
|                            |                           |                                  | 2         | 1713000440          | 军事训练<br>Military Training                            | 3             | 考查                     |                        |                | √                       | 90                   | 0              | 0                      | 90              | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     |         |     |     |       |
|                            |                           |                                  | 3         | 1713016170          | 航线设计<br>Ship Course Design                           | 1             | 考查                     |                        |                | √                       | 30                   | 0              | 0                      | 30              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     | 4-1     |     |     |       |
|                            |                           |                                  | 4         | 2113000460          | 毕业实习及毕业论文<br>Graduation Practice, Design & Thesis    | 12            | 考查                     |                        |                | √                       | 360                  | 0              | 0                      | 360             | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         | 4-2 |     |       |
|                            |                           |                                  | 5         | 1713004710          | 精通救生艇筏和救助艇<br>Proficiency in Life boat & Rescue boat | 1             | 考查                     |                        |                | √                       | 28                   | 0              | 0                      | 28              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     |     |       |
|                            |                           |                                  | 6         | 1713004720          | 精通急救<br>Proficiency in First Aid                     | 1             | 考查                     |                        |                | √                       | 30                   | 0              | 0                      | 30              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     |     |       |
|                            |                           |                                  | 7         | 1713017530          | 高级消防<br>Advanced Fire Fighting                       | 1             | 考查                     |                        |                | √                       | 36                   | 0              | 0                      | 36              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     |     |       |
|                            |                           |                                  | 8         | 1713025610          | 船艺训练<br>Seamanship Training                          | 1             | 考查                     |                        |                | √                       | 30                   | 0              | 0                      | 30              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     |     |       |
|                            |                           |                                  | 9         | 1713026090          | 基本安全<br>Basic Safety                                 | 2.5           | 考查                     |                        |                | √                       | 86                   | 54             | 0                      | 32              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     |     |       |
|                            |                           |                                  | 10        | 1713016190          | 船舶保安<br>Ship Security                                | 0.5           | 考查                     |                        |                | √                       | 20                   | 0              | 0                      | 20              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     |     | 小学期课程 |
|                            |                           |                                  | 11        | 1713016150          | 船舶认识实习<br>Ship Observation Practice                  | 4             | 考查                     |                        |                | √                       | 120                  | 0              | 0                      | 120             | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         | 3-1 |     |       |
|                            |                           |                                  | 12        | 1713016160          | 货物积载与系固<br>Cargo Stowage and Securing                | 1             | 考查                     |                        |                | √                       | 40                   | 0              | 0                      | 40              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     | 3-2 |       |
|                            |                           |                                  | 13        | 1713016200          | GMDSS 设备操作<br>GMDSS Equipment Operation              | 2             | 考查                     |                        |                | √                       | 60                   | 0              | 0                      | 60              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |         |     | 3-2 |       |

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|----------|--|--|----|------------|--|----|----|--|---|---|------|----|----|-----|---|--|--|--|--|--|--|--|--|--|--|--|--|-----|--|--|
|          |  |  | 14 | 1713016180 | 驾驶台资源管理<br>Bridge Resources Management | 1  | 考查 |  | √ | √ | 40   | 20 | 20 | 0   | 0 |  |  |  |  |  |  |  |  |  |  |  |  | 3-3 |  |  |
|          |  |  | 15 | 1713016210 | 雷达操作与应用<br>Radar Operation             | 1  | 考查 |  |   | √ | 40   | 0  | 0  | 40  | 0 |  |  |  |  |  |  |  |  |  |  |  |  | 3-3 |  |  |
| 合计 Total |  |  |    |            |  | 32 |    |  |   |   | 1010 | 74 | 20 | 916 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |     |  |  |

表 6: 航海技术(实验班) 讲座设置及进程

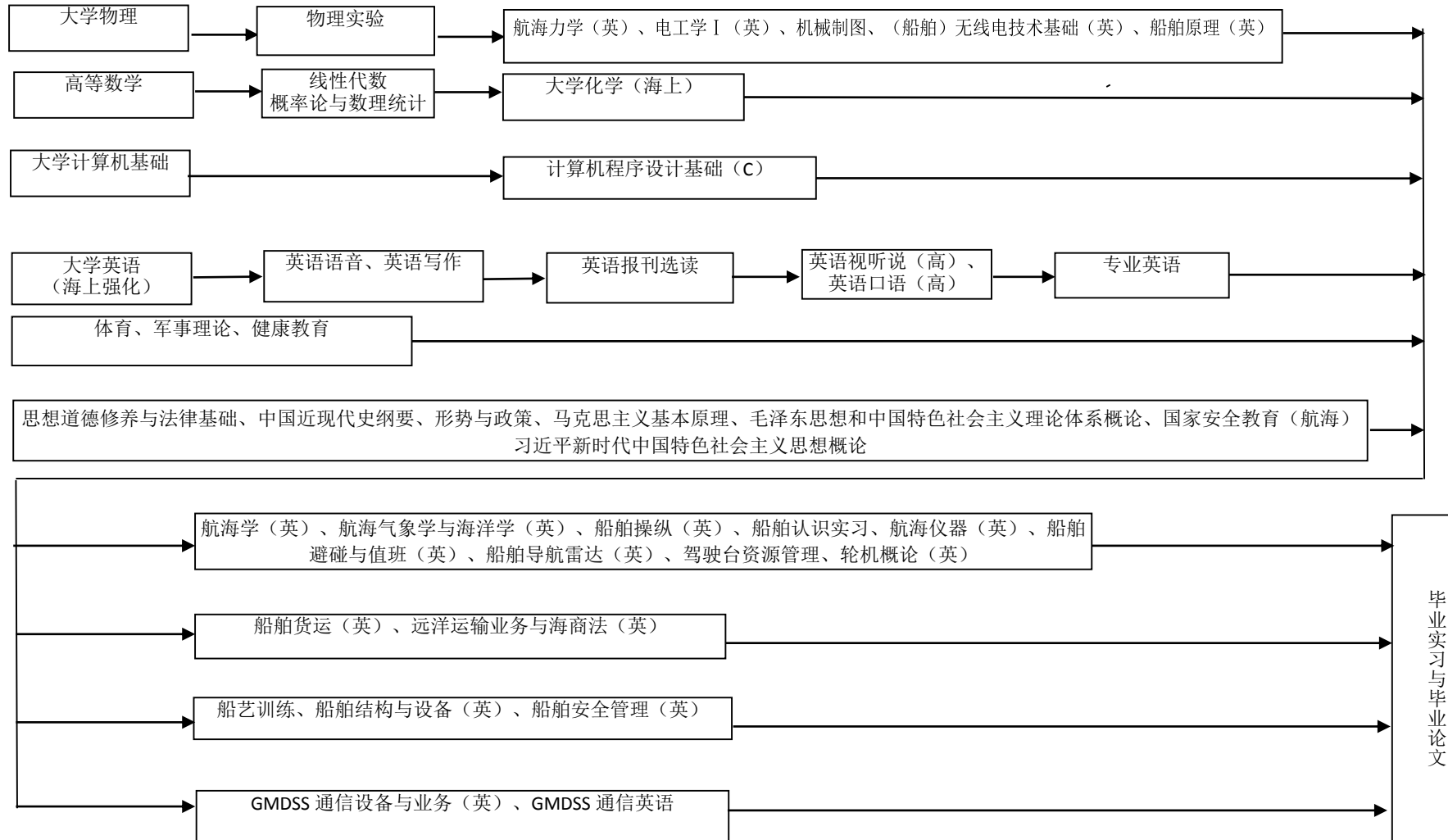
Table6: Nautical Science [Elite Class] General Lectures System

| 课程性质<br>Course Nature       | 课程类别<br>Course Categories     | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                               | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必修<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |     |                                |  |  |        |
|-----------------------------|-------------------------------|----------------------------------|-----------|---------------------|---|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|-----|--------------------------------|--|--|--------|
|                             |                               |                                  |           |                     |   |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |     |                                |  |  |        |
|                             |                               |                                  |           |                     |   |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2 |                                |  |  |        |
| 必修课程组<br>Compulsory Courses | 必修-讲座<br>Lectures and Seminar |                                  | 1         | 1713000480          | 入学教育<br>Admission Orientations                    | 0             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     |     |     |                                |  |  |        |
|                             |                               |                                  | 2         | 1713025340          | 形势与政策   | 2             | 考查                     |                        |                | √                       | 64                   | 64             | 0                      | 0               | 0                        | 1-1                | 1-2 |     | 2-1                 | 2-2 |     | 3-1                | 3-2 |             | 4-1                 | 4-2 |     | 4个学年的第1、2学期分别设8学时,2学分设置在第4-1学期 |  |  |        |
|                             |                               |                                  | 3         | 1713000520          | 职业生涯规划<br>Career Planning for University Students | 0.5           | 考查                     |                        |                | √                       | 8                    | 8              | 0                      | 0               | 0                        |                    | 1-2 |     |                     |     |     |                    |     |             |                     |     |     |                                |  |  |        |
|                             |                               |                                  | 4         | 2113000510          | 大学生健康教育<br>Health education of college students   | 1             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        |                    | 1-2 |     |                     |     |     |                    |     |             |                     |     |     |                                |  |  | 课外学时16 |
|                             |                               |                                  | 5         | 2113000300          | 国家安全教育(航海)<br>National Security Education         | 1             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        |                    |     | 1-3 |                     |     |     |                    |     |             |                     |     |     |                                |  |  | 小学期课程  |
|                             |                               |                                  | 6         | 1713000530          | 就业指导<br>Career Guidance for University Students   | 0.5           | 考查                     |                        |                | √                       | 8                    | 8              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    | 3-1 |             |                     |     |     |                                |  |  |        |

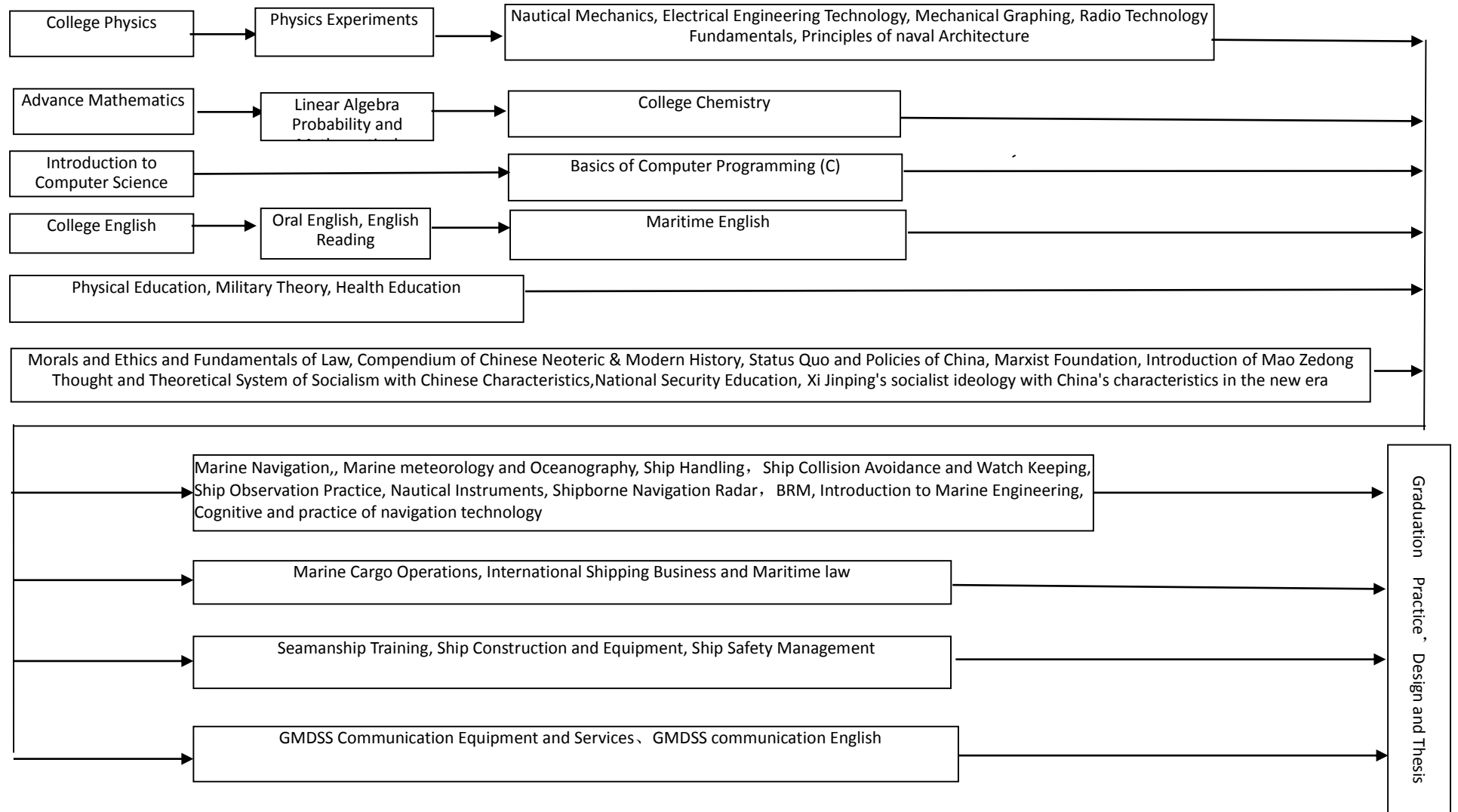
## 航海技术

|          |   |  |  |  |  |     |     |   |   |   |  |  |  |  |  |  |  |  |  |  |
|----------|---|--|--|--|--|-----|-----|---|---|---|--|--|--|--|--|--|--|--|--|--|
| 合计 Total | 5 |  |  |  |  | 128 | 128 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |
|----------|---|--|--|--|--|-----|-----|---|---|---|--|--|--|--|--|--|--|--|--|--|

### 航海技术（实验班）专业选课指导图



### Course Selection Flowchart (Elite Class)



# 航海技术(卓越工程师)（校企）专业本科培养计划 (2022)

## Undergraduate Program for Nautical Science Major [Excellent Engineer A]

### 一、专业简介

#### I. Program Profile

大连海事大学航海技术专业在国内外享有较高的知名度，1992年入选交通部“八五”首批重点建设学科专业，2006年入选辽宁省高等学校示范专业，2007年入选国家高等学校特色专业建设点，2011年入选辽宁省高等学校综合改革试点专业。航海技术专业本科毕业生具有较强的实践动手能力、英语运用能力、业务能力和良好的团队协作精神，深受港航企事业单位的好评。航海技术专业毕业生就业主要面向各航运公司从事远洋运输工作，部分毕业生到海事局、船级社、引航站或航海类院校等港航企事业单位从事相关工作。

The nautical science in Navigation College, DMU, enjoys a high reputation and popularity both at home and abroad. In 1992, it was selected by Ministry of Transport as one of the National Key-building Disciplines in State's Eighth Five-Year Plan. This Program was rated as one of the demonstration disciplines of tertiary education in Liaoning Province in 2006, selected as one of the Featuring Specialties under national tertiary education construction in 2007, and appointed as one of the trial units for comprehensive reformation in tertiary education of Liaoning Province in 2011. In the nautical science, the students will be trained into high quality and competent mariners. They are professionals with high English level and team-work spirits, and enjoy high reputation in all shipping industries, including shipping companies, port management companies, maritime institutions, maritime safety administrations, classification societies, pilot stations, and maritime colleges and universities.

### 二、培养目标

#### II. Program Objectives

本专业培养具备良好的人文素养，扎实的自然科学基础知识和航海技术基本理论，系统掌握船舶航行、货物积载与装卸、船舶作业管理和人员管理、船舶通信等方面的知识和技能，综合素质好、安全与环保意识强、具有国际竞争能力的高级航海人才。毕业生可从事远洋船舶驾驶、船舶引航、管理、航海教育等工作。

The program cultivates high-level marine talents who should possess good comprehensive quality, strong consciousness of safety and environment protection, and competitiveness in international shipping industries, with good humanistic accomplishments, as well as:

- ✓ a solid knowledge-base in natural science and theories of nautical science;
- ✓ knowledge and skills in the ship navigation, cargo stowage and handling;
- ✓ ship operation management;
- ✓ human resource management;

✓ and shipborne communication.

Graduates of the program are projected to engage in the practices of ocean-going ship handling, ship pilotage, management, as well as maritime education.

### 三、毕业要求

#### III. Graduation Requirements

| 毕业要求  | 毕业要求指标点分解  |
|---|--|
| <p><b>毕业要求 1</b></p> <p><b>Graduation Requirement 1</b></p> <p><b>工程知识:</b> 具备将数学、自然科学、工程基础和专业知识应用于航海技术领域复杂工程问题的能力。</p> <p><b>Engineering knowledge:</b> the ability to apply mathematics, natural sciences, engineering fundamentals and expertise to complex engineering issues in the field of nautical science.</p>   | <p>1-1 能够将数学、自然科学、工程基础和专业知识运用到复杂航海技术问题的恰当表述中</p> <p>1-1 to use the mathematics, natural sciences, engineering fundamentals and expertise to the appropriate statements of complex nautical science issues</p> <p>1-2 能够将工程和专业知识用于航海技术问题的分析、设计、计算、模拟与改进</p> <p>1-2 can be used for engineering and professional knowledge of nautical science problems in the analysis, design, calculation, simulation and improvement</p> <p>1-3 熟悉航海技术行业特点, 具备较好的工程思维和实践技能, 并可应用于解决复杂工程问题。</p> <p>1-3 to familiar with the characteristics of nautical science field, with good engineering thinking and practical skills, and can be applied to solve complex engineering problems.</p> |
| <p><b>毕业要求 2</b></p> <p><b>Graduation Requirement 2</b></p> <p><b>问题分析:</b> 能够应用数学、自然科学和工程科学的基本原理, 识别、表达、并通过文献研究分析复杂航海技术问题, 以获得有效结论。</p> <p><b>Problem Analysis:</b> The basic principles of mathematics, natural sciences and engineering sciences can be applied to identify, express, and analyze complex nautical science problems through literature research to obtain effective conclusions.</p> | <p>2-1 能够识别和判断复杂航海技术问题的核心特征与关键环节</p> <p>2-1 to identify and determine the core of complex nautical science problems and key links</p> <p>2-2 能够运用基本原理和文献资料辅助正确表达解决复杂航海技术问题的技术方案, 证实解决方案的合理性。</p> <p>2-2 can apply basic principles and document literature to express the technical route to solve complex nautical science problems, and prove the rationality of the technical route.</p>  |
| <p><b>毕业要求 3</b></p> <p><b>Graduation Requirement 3</b></p> <p><b>设计/开发解决方案:</b> 能够设计针对复杂航海技术问题的解决方案, 设计满足特定需求的工作流程, 并能够在设计环节中体现创新意识, 考虑社会、健康、安全、法律、文化以及环境等因素。</p> <p><b>Design / develop solutions:</b> Design solutions for complex nautical science problems, design processes that meet specific needs, and be able to embody innovation awareness in the design process, taking into account</p>   | <p>3-1 能够进行复杂工程问题的针对性调研, 确定设计目标</p> <p>3-1 be able to carry out complex engineering problems targeted research to determine the design goals</p> <p>3-2 能够在环境、安全、法律、社会、经济等现实约束条件下, 依照相关规则选取工艺单元、系统或流程并进行优选, 体现创新意识</p> <p>3-2 can be in the environment, security, legal, social, economic and other realistic constraints, in accordance with the relevant rules to design working processes that meets specific needs and make optimization, to reflect the sense of innovation</p> <p>3-3 能够对解决方案进行合理计算、评价, 并用图纸、报告等形式呈现</p> <p>3-3 can calculate and evaluate the solution, can use drawings, reports and other forms</p>  |

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|---|---|
| <p>social, health, safety, and law, culture and environment and other factors.</p>  | <p>to show results.</p>   |
| <p><b>毕业要求 4</b><br/><b>Graduation Requirement 4</b><br/><b>研究:</b> 能够基于科学原理并采用科学方法对复杂航海技术问题进行研究, 并能得到合理有效的结论<br/><b>Research:</b> It is possible to study complex nautical science problems based on scientific principles and scientific methods, and obtain a rational and effective result.</p>   | <p>4-1 针对工程问题的技术验证, 能够制定合理的研究方案<br/>4-1 for technical problems of engineering verification, to develop a reasonable research program.<br/>4-2 能够基于专业理论, 根据对象特征, 选择研究路线, 设计可行的实验实践方案, 获取合理有效的结论<br/>4-2 can be based on professional theory, according to the characteristics of the object, select the research route, the design of feasible experimental program, obtain rational and effective results.</p>  |
| <p><b>毕业要求 5</b><br/><b>Graduation Requirement5</b><br/><b>使用现代工具:</b> 能够针对复杂航海技术问题, 选择与使用恰当的技术、资源、现代工程工具和信息技术工具, 并能够理解其局限性<br/><b>The use of modern tools:</b> the ability to select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex nautical science issues, and the ability to understand its limitations</p>   | <p>5-1 能够较为熟练运用现代工程工具和信息技术工具, 表达复杂航海技术问题的解决方案, 能理解其局限性<br/>5-1 can use modern engineering tools and information technology tools to express complex the solution of nautical science problems, and understand its limitations<br/>5-2 能够运用文献检索工具, 获取复杂航海技术问题的相关信息与技术最新进展<br/>5-2 can use literature search tools to obtain relevant information and latest technology development in complex nautical science problems.</p>   |
| <p><b>毕业要求 6</b><br/><b>Graduation Requirement6</b><br/><b>工程与社会:</b> 能够基于工程相关背景知识进行合理分析, 评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响, 并理解应承担的责任<br/><b>Engineering and Society:</b> The ability to conduct a rational analysis based on engineering-related background knowledge, evaluate the impact of professional engineering practices and complex engineering problem solutions on society, health, safety, law and culture, and understand the responsibilities that should be borne</p> | <p>6-1 具有工程实习和社会实践的经历<br/>6-1 the experience of engineering practice and social practice<br/>6-2 能够识别和分析航海技术实践和复杂工程问题解决方案对社会、健康、安全、文化的影响<br/>6-2 the ability to identify and analyze the impact of nautical science practices and complex engineering problem solutions on social, health, safety and culture<br/>6-3 熟悉复杂航海技术问题的解决中应遵循的法律法规和职业道德规范, 明确承担的责任和义务。<br/>6-3 familiar with the complex nautical science problems should be resolved in accordance with the laws and regulations and professional ethics, clearly assume responsibility and obligations.</p> |
| <p><b>毕业要求 7</b><br/><b>Graduation Requirement7</b><br/><b>环境和可持续发展:</b> 能够理解和评价针对复杂航海技术问题的工程实践对环境、社会可持续发展的影响<br/><b>Environment and Sustainable Development:</b> The</p>   | <p>7-1 理解环境保护和社会可持续发展的内涵和意义, 能够正确评价工程实践活动对环境的影响<br/>7-1 understand the environmental protection and social sustainable development of the connotation and significance, can correctly evaluate the engineering practice activities on the environment</p>   |

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| <p>ability to understand and evaluate the impact of engineering practices on complex nautical science issues on environmental and social sustainable development</p>  | <p>7-2 能够在复杂工程问题解决方案中体现对节能和环境友好的要求，客观评价解决方案对社会可持续发展的影响</p> <p>7-2 to reflect the energy-saving and environment-friendly requirements in the complex engineering problem solution , objectively evaluate the effects of solutions on social sustainable development.</p>  |
| <p><b>毕业要求 8</b></p> <p><b>Graduation Requirement8</b></p> <p><b>职业规范:</b> 具有人文社会科学素养、社会责任感, 能够在工程实践中理解并遵守工程职业道德和规范, 履行责任</p> <p><b>Professional norms:</b> Have humanities and social science literacy, social responsibility, understand and comply with engineering ethics and norms in engineering practice, to fulfill responsibilities</p>  | <p>8-1 具有正确的人生观、价值观和世界观, 了解国情, 维护国家利益, 具有推动民族复兴和社会进步的责任感</p> <p>8-1 have the correct outlook on life, values and world outlook, understand the national conditions, safeguard national interests, with the promotion of national rejuvenation and social progress of the sense of responsibility</p> <p>8-2 具有人文社会科学素养, 具备履行社会职责的身心条件</p> <p>8-2 have the humanities and social science literacy, have the physical and psychological conditions to fulfill social responsibilities</p> <p>8-3 理解航海技术伦理的核心理念, 在工程实践中自觉遵守职业道德和规范, 具有法律意识</p> <p>8-3 understand the core concept of nautical science ethics, consciously abide by professional ethics and norms in engineering practice, with legal awareness.</p> |
| <p><b>毕业要求 9</b></p> <p><b>Graduation Requirement9</b></p> <p><b>个人和团队:</b> 能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色</p> <p><b>Individuals and Teams:</b> The ability to take on individual, team members, and responsible roles in a multidisciplinary team</p>  | <p>9-1 具有团队协作意识, 具有一定的组织管理能力和较强的自我控制能力、人际交往能力</p> <p>9-1 have a sense of teamwork, with a certain degree of organizational management and strong self-control, interpersonal skills</p> <p>9-2 能够独立完成团队分配的工作, 并与其他团队成员有效沟通, 共享信息</p> <p>9-2 be able to independently complete the work of team distribution, and other members of the effective communication and sharing of information</p> <p>9-3 了解与本专业相关学科等领域的技术衔接, 了解作为团队负责人应具备的素质与能力</p> <p>9-3 understand related disciplines and other areas of technical convergence, Understand the qualities and abilities of a team leader.</p>  |
| <p><b>毕业要求 10</b></p> <p><b>Graduation Requirement10</b></p> <p><b>沟通:</b> 具备一定的国际视野, 能够有效在跨文化背景下进行沟通和交流。能够就复杂工程问题与业界同行及社会公众进行沟通和交流。</p> <p><b>Communication:</b>Have a certain international perspective, to communicate and discuss in cross-cultural background, and theability to communicate and discuss effectively with industry peers and the public on complex engineering issues.</p> | <p>10-1 能够使用英语, 在跨文化背景下进行有效沟通交流</p> <p>10-1be able to use English to communicate in the context of cross-cultural</p> <p>10-2 了解航海技术专业的国际发展趋势、研究热点, 能够通过口头、书面、图表等方式表达思想, 与业界同行及社会公众进行沟通和交流。通过国家主管机关规定的考试和评估, 具备规定的海上资历, 可取得海洋船舶驾驶员相关的适任证书。</p> <p>10-2 to understand the international development trends, research hot spots of nautical science, and express ideas through oral, written, charts, etc., and communicate and</p>  |

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|  | discuss effectively with industry peers and the public, pass the required test and assessment by the national authority, possess required sea service, and obtain the relevant competency certificate for officers working on ocean-going ships.   |
| <b>毕业要求 11</b><br><b>Graduation Requirement11</b><br><b>项目管理:</b> 理解工程管理原理与决策方法, 并能在实践中予以应用<br><b>Project management:</b> To understand the principles of project management and decision-making methods, and can be applied in practice.              | 11-1 能够对行业项目的工艺路线、工艺方案进行基本技术经济分析和比较<br>11-1 do technical and economic analysis and have comparison of the technological route and process plan.<br>11-2 了解行业项目的实施过程, 掌握工程项目运营的相关技术与管理知识<br>11-2 understand the project implementation process, master the related technology and management knowledge of engineering project operation.  |
| <b>毕业要求 12</b><br><b>Graduation Requirement12</b><br><b>终身学习:</b> 具有自主学习和终身学习的意识, 有不断学习和适应发展的能力<br><b>Lifelong learning:</b> with independent learning and lifelong learning awareness, have the ability to continue to learn and adapt to development | 12-1 具有自主学习和终身学习意识, 具备终身学习的知识基础, 掌握自主学习的方法, 了解拓展知识和能力的途径<br>12-1 with independent learning and lifelong learning awareness, with a lifelong learning knowledge base, master the way of self-learning, understanding of ways to expand knowledge and ability<br>12-2 能针对个人或职业发展需求, 采用合适的方法, 自主学习, 适应航海技术领域的发展<br>12-2 for personal or career development needs, to use appropriate methods to go on self-learning and adapt to the development of nautical science field. |

#### 四、特色课程

##### IV. Feature Courses

船艺训练、航海学、船舶结构与设备、船舶操纵、船舶避碰与值班、船舶货运、航海气象学与海洋学、船舶安全管理、航海仪器、船舶导航雷达、GMDSS 通信设备与业务、驾驶台资源管理

Seamanship Training, Marine Navigation, Ship Construction and Equipment, Ship Handling, Ship Collision Avoidance and Watch Keeping, Marine Cargo Operations, Marine meteorology and Oceanography, Ship Safety Management, Nautical Instruments, Shipborne Navigation Radar, GMDSS Communication Equipment and Services, Bridge Resources Management

#### 五、学制与学位

##### V. Duration and Degree

学制: 4 年

Program Duration: 4 years

授予学位: 工学学士学位

Degree conferred: Bachelor of Engineering

#### 六、学分要求

##### VI. Credit Requirement

182.5 学分

182.5 Credit

## 七、课程体系与毕业培养要求的对应关系矩阵

## VII. Corresponding Relation of Curriculum and Program Requirements

| 序号 | 毕业要求指标点<br>课程名称          | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|--------------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                          | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 1  | 专业导论 (航海技术)              | M     |     |     |       |     |       |     |     |       |     |       | M   |       |     | L   |       | M   |       | L   |     |       |     | H   |        |      |        |      | H      |      |
| 2  | 入学教育                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | M   | M     |     | H   |        |      | M      | H    |        |      |
| 3  | 形势与政策                    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 4  | 军事理论                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 5  | 军事训练                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 6  | 体 育                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 7  | 马克思主义基本原理                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 8  | 中国近现代史纲要                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 9  | 逻辑学                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 10 | 毛泽东思想和中国特色<br>社会主义理论体系概论 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 11 | 习近平新时代中国特色<br>社会主义思想概论   |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 12 | 思想道德修养与法律基<br>础          |       |     |     |       |     |       |     |     |       |     |       | M   | M     | M   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 13 | 实用写作                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 14 | 国家安全教育 (航海)              |       |     |     |       |     |       |     |     |       |     |       | H   | H     | H   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 15 | 高等数学                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 16 | 线性代数                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 17 | 大学物理                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 18 | 大学物理实验                   |       |     |     | M     | M   |       |     | H   | H     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 19 | 大学化学 (海上)                |       | H   |     |       |     | M     | M   | M   |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |

大连海事大学本科专业培养计划

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|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 20 | 大学英语(含口语、听说)    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 21 | 航海英语阅读          |       |     |     |       |     |       |     |     |       |     | H     |     |       |     |     |       | H   |       | H   |     |       |     | H   | H      |      |        | M    | M      |      |
| 22 | 大学计算机基础         |       |     |     |       |     |       |     |     |       | H   | H     |     |       |     |     |       |     |       |     |     |       |     | M   | M      |      |        |      |        |      |
| 23 | 计算机程序设计基础(C语言)  |       |     |     |       |     |       |     |     |       | H   | H     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 24 | Python 数据分析     |       | H   |     |       |     |       |     | H   |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 25 | MATLAB 语言与可视化仿真 |       | H   |     | H     |     |       | H   |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 26 | 电工学 1           | H     |     |     |       |     | M     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 27 | 机械制图            |       | H   |     |       |     |       | M   | M   |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 28 | 航海力学            |       | H   |     |       |     | M     |     |     | L     |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 29 | (船舶)无线电技术基础     | H     | M   |     |       |     | M     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 30 | 航海专业数学          | H     | M   | H   |       | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | M      |      |        |      |        |      |
| 31 | 船舶原理            | H     | H   | H   |       | M   |       |     |     |       |     |       |     |       | L   |     |       |     |       |     |     |       |     |     |        |      |        | L    |        |      |
| 32 | 远洋业务与海商法        |       |     |     |       |     | L     |     |     |       |     |       | M   | M     | M   |     |       |     |       | M   |     |       | M   |     |        |      | L      |      |        |      |
| 33 | 航海气象学与海洋学       | L     |     |     | M     |     |       |     |     |       |     |       |     | M     |     | M   | M     | L   |       |     |     |       |     |     | H      |      |        | L    |        |      |
| 34 | 船舶货运            | H     | H   | M   |       | H   |       |     | M   |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | M      |      |        |      |        |      |
| 35 | 轮机概论            | L     |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     | M     |     | H   |        |      |        |      | L      |      |
| 36 | 航海英语会话与评估       |       |     |     |       |     |       |     |     |       | L   | L     |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 37 | 船艺训练            |       |     | H   |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     |     | M     | M   |     |        | M    |        |      |        |      |
| 38 | 船舶结构与设备         |       | H   | H   | H     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      | H      |      |        |      |
| 39 | 航海学             | M     | M   | H   | H     | M   | M     | L   | L   | L     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |

航海技术

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|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 40 | 电子海图显示与信息系<br>统 |       | H   | H   | H     |     |       | M   |     |       | H   | M     |     |       |     | L   |       |     |       |     | L   |       |     | M   |        | M    |        |      | L      |      |
| 41 | 船舶避碰与值班         |       | H   | H   | H     |     |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 42 | 船舶操纵            |       | H   | H   | H     |     |       |     |     |       |     | H     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 43 | 船舶导航雷达          | M     |     |     |       |     |       |     |     | M     | M   |       |     | M     | M   | L   |       |     |       |     | M   |       |     |     | H      |      |        | M    |        |      |
| 44 | 船舶安全管理          |       |     |     |       |     |       | M   |     |       |     |       |     | L     | M   | M   | H     | M   | M     | H   | H   | M     |     |     | H      |      |        |      |        |      |
| 45 | 航海仪器            | M     | H   |     |       |     |       |     |     | H     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 46 | GMDSS 通信设备与业务   |       |     | H   |       |     |       | M   |     |       | M   | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 47 | GMDSS 通信英语      |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 48 | 海事调查与案例分析       | H     |     |     |       | H   |       |     |     |       |     |       |     |       | H   |     |       |     |       | H   |     |       |     |     |        |      |        |      |        |      |
| 49 | 船员心理学           |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | L   |       |     |     |        |      |        |      |        |      |
| 50 | 海洋船舶气象定线        | M     |     |     |       | M   |       |     |     |       |     |       |     |       |     | M   |       |     |       |     |     |       |     |     | L      |      |        | L    |        |      |
| 51 | 中国海员史           |       |     |     |       |     |       |     |     |       |     |       |     | M     |     |     |       |     | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 52 | 概率论与数理统计        | M     | M   | M   | H     | H   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 53 | 特种货物运输          |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 54 | LNG 船货物运输       |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 55 | 航海涉外礼仪          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     |     | L   |       |     |     | H      |      |        |      |        |      |
| 56 | 国际海事发展动态        |       |     |     |       | M   |       |     |     |       |     |       |     |       |     | L   | L     |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 57 | 海事管理概论          | M     | M   | M   |       |     |       |     |     |       | M   |       |     |       |     |     |       |     |       | M   |     |       |     |     |        |      |        | L    |        |      |
| 58 | 船舶建模与控制         | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 59 | 智能航海导论          | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 60 | 物联网与船联网技术       | M     | M   |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |

大连海事大学本科专业培养计划

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|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|---|--|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |   |  |
| 61 | 航运大数据技术与应用      | M     | M   |     |       |     | H     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    | H      |      |   |  |
| 62 | 智能船岸基支持系统与远程控制  | M     | M   |     |       |     | H     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        | M    | H      |      |   |  |
| 63 | 法理学             |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        |      | M |  |
| 64 | 海洋法             |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        |      | M |  |
| 65 | 船舶实习(卓越上、下)     |       |     | M   | L     |     |       |     |     |       |     |       |     | H     | L   | L   | L     | L   |       |     | M   | M     |     |     |        | H    |        |      |        |      |   |  |
| 66 | 精通救生艇筏和救助艇      |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |   |  |
| 67 | 精通急救            |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |   |  |
| 68 | 熟悉与基本安全         |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |   |  |
| 69 | 高级消防            |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |   |  |
| 70 | 船舶保安            |       |     | M   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |   |  |
| 71 | 货物积载与系固         |       |     | M   |       |     |       | M   |     |       |     |       |     |       |     |     |       |     |       |     | M   | M     |     |     | H      | H    |        |      |        |      |   |  |
| 72 | 航线设计            |       | M   | H   |       |     | M     | M   |     |       |     |       |     |       |     |     | M     | M   |       |     |     | M     | M   |     |        | H    | M      | H    |        |      |   |  |
| 73 | 驾驶台资源管理         |       | M   | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     |     | M   | H      |      |        |      |        |      |   |  |
| 74 | GMDSS 设备操作      |       |     | H   |       |     |       | M   |     |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |   |  |
| 75 | 雷达操作与应用         | M     |     |     | H     |     |       | M   |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        | H    |        |      |        |      |   |  |
| 76 | 现代航海技术概述        |       |     |     |       |     |       |     |     |       |     | L     | H   |       |     |     |       |     |       |     |     |       |     | L   |        | H    |        |      |        |      |   |  |
| 77 | 科技讲座            |       |     |     |       |     |       |     |     |       |     | M     | L   |       |     |     |       |     |       |     |     |       |     | M   |        | M    |        |      |        |      |   |  |
| 78 | 公益劳动            |       |     |     |       |     |       |     |     |       |     |       |     | H     |     |     | H     |     | H     | M   |     | M     | L   |     |        |      |        |      |        |      |   |  |
| 79 | 大学生健康教育         |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   | H   | H      |      |        |      |        |      |   |  |
| 80 | 职业生涯规划          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       | H   | H   | H     |     |     |        |      |        |      |        | H    | H |  |
| 81 | 就业指导            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       | H   | H   | H     |     |     |        |      |        |      |        |      |   |  |

航海技术

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |   |   |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|---|---|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |   |   |
| 82 | 毕业实习及毕业论文       |       |     |     |       |     | H     | H   | H   | H     | H   |       | H   |       |     |     | M     | M   |       |     |     |       |     |     |        |      |        |      | H      |      | H | H |

注：关联度强的用“H”表示，关联度中等的用“M”表示，关联度弱的用“L”表示。

Note: The degree of correlation should be marked as "H"(high), "M"(medium) and "L"(low).

## 八、教学计划进度表

参见表1~表6

Curriculum Structure

Refer to Table1~Table6.

表1: 航海技术(卓越工程师)课程设置及学分安排

Table1: Nautical Science[Excellent Engineer] Curriculum and Credits

| 课程分类<br>Course<br>Categories | 理论课程 (147.5 学分)<br>In-class Teaching Courses (147.5 credits) |                               |                     |                | 集中实践环节 (30 学分)<br>Centralized Practicum<br>(30 credits) |                               | 讲座 (5 学分)<br>Lectures and Seminars<br>(5 credits) |                               | 总计    |
|------------------------------|--|-------------------------------|---------------------|----------------|---|-------------------------------|---|-------------------------------|-------|
|                              | 必修<br>Compulsory   | 限选<br>Restrictive<br>Optional | 任选<br>Free Optional |                | 必修<br>Compulsory  | 限选<br>Restrictive<br>Optional | 必修<br>Compulsory                                  | 限选<br>Restrictive<br>Optional |       |
| 学分<br>Credits                | 129  | 10                            | 8.5                 |                | 30  | 0                             | 5   | 0                             | 182.5 |
| 占理论课学分百分比<br>Percentage      | 87.46  | 6.78                          | 5.76                |                |   |                               |   |                               |       |
| 实验上机环节学分                     | 独立实验上机学分   | 课内实验上机学分                      | 限选必修课的独立实验上机学分      | 限选必修课的课内实验上机学分 |   |                               |   |                               |       |
|                              | 6  | 12.38                         | 0                   | 0              |   |                               |   |                               |       |
| 实践环节占学分百分比                   |  |                               |                     |                | 26.51   |                               |   |                               |       |

注: 实践环节学分占总学分百分比=【(课内实践+课内实验+课内上机)学时/16+(独立实验+独立上机)学时/24+集中实践性教学学分】/总学分\*100%

Note: Percentage of Practice = 【(In-class practice+ In-class Experiment + In-class Operation) Credits/16+ (Independent Experiment+ Independent Operation) Credits/24+Centralizing Practical Teaching Credits】/Total Credits\*100%

表2: 航海技术(卓越工程师)必修课程设置及进程

Table2: Nautical Science[Excellent Engineer] Curriculum of Compulsory Courses

| 课程性质<br>Course<br>Nature | 课程类别<br>Course<br>Categories | 类别备注<br>Course<br>Categories<br>Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name     | 学分<br>Credits | 考核方式<br>Testin<br>g<br>method | 是否学位课<br>Degree<br>Course | 是否核心课程<br>CORE<br>CORE | 是否必修<br>Required<br>Course | 学时<br>Teaching Hours |                    |                            |                 |                                 | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                        |     |     |  |  |         |
|--------------------------|------------------------------|--|-----------|---------------------|-------------------------|---------------|-------------------------------|---------------------------|------------------------|----------------------------|----------------------|--------------------|----------------------------|-----------------|---------------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|------------------------|-----|-----|--|--|---------|
|                          |                              |  |           |                     |                         |               |                               |                           |                        |                            | 合计<br>Total          | 讲课<br>Lecture<br>s | 实验<br>Laborator<br>y Hours | 实践<br>Practicum | 上机<br>Computer<br>Operatio<br>n | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth<br>Term |     |     |  |  |         |
|                          |                              |  |           |                     |                         |               |                               |                           |                        |                            |                      |                    |                            |                 |                                 | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                    | 4-1 | 4-2 |  |  |         |
| 必修课                      | 必修-公共                        |  | 1         | 1713000010          | 军事理论<br>Military Theory | 2             | 考查                            |                           |                        | √                          | 32                   | 32                 | 0                          | 0               | 0                               | 1-1                |     |     |                     |     |     |                    |     |             |                        |     |     |  |  | 课外学时: 4 |



## 大连海事大学本科专业培养计划

|   |  |    |            |   |   |    |   |   |    |    |    |   |   |  |  |     |     |  |  |  |     |  |  |
|---|--|----|------------|---|---|----|---|---|----|----|----|---|---|--|--|-----|-----|--|--|--|-----|--|--|
|   |  | 19 | 1713022340 | 大学化学(海上)<br>College Chemistry   | 2 | 考试 |   | √ | 32 | 32 | 0  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |
|   |  | 20 | 1713025582 | 大学物理(A-2)<br>University Physics   | 4 | 考试 |   | √ | 64 | 64 | 0  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |
|   |  | 21 | 2113000223 | 大学英语(海上)<br>College English   | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |
|   |  | 22 | 1713000028 | 体育(4)(海上)<br>Physical Education   | 1 | 考查 | √ | √ | 40 | 0  | 32 | 8 | 0 |  |  |     | 2-2 |  |  |  |     |  |  |
|   |  | 23 | 1713026100 | 毛泽东思想和中国特色社会主义理论体系概论<br>Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0 |  |  |     | 2-2 |  |  |  |     |  |  |
|   |  | 24 | 2113000224 | 大学英语(海上)<br>College English   | 3 | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0 |  |  |     | 2-2 |  |  |  |     |  |  |
|   |  | 25 | 2113000580 | 实用写作<br>Factual writing   | 1 | 考查 |   | √ | 16 | 16 | 0  | 0 | 0 |  |  |     | 2-3 |  |  |  |     |  |  |
|   |  | 26 | 1713022040 | 习近平新时代中国特色社会主义思想概论<br>An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era         | 3 | 考试 |   | √ | 48 | 40 | 0  | 8 | 0 |  |  |     |     |  |  |  | 3-2 |  |  |
| 必修-专业<br>(类)基础课<br>Disciplinary Courses |  | 1  | 1713010180 | 机械制图<br>Mechanical Graphing   | 2 | 考查 |   | √ | 32 | 28 | 4  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |
|   |  | 2  | 1713015880 | (船舶)无线电技术基础<br>(Ship) Radio Technology Fundamentals   | 3 | 考试 |   | √ | 48 | 40 | 8  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |
|   |  | 3  | 1713015890 | 电工学 I<br>Electrical Engineering Technology  | 2 | 考试 |   | √ | 32 | 28 | 4  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |
|   |  | 4  | 1713015930 | 航海力学<br>Nautical Mechanics  | 2 | 考试 |   | √ | 32 | 26 | 6  | 0 | 0 |  |  | 2-1 |     |  |  |  |     |  |  |

## 航海技术

|                                     |  |  |   |            |   |     |    |   |   |    |    |    |   |    |   |  |  |     |     |     |  |  |  |  |  |  |  |
|-------------------------------------|--|--|---|------------|---|-----|----|---|---|----|----|----|---|----|---|--|--|-----|-----|-----|--|--|--|--|--|--|--|
|                                     |  |  | 5 | 1713025620 | 航海专业数学<br>Mathematics for<br>Marine Navigation                          | 2.5 | 考试 |   | √ | 40 | 40 | 0  | 0 | 0  |   |  |  | 2-1 |     |     |  |  |  |  |  |  |  |
|                                     |  |  | 6 | 1713015910 | 船舶原理<br>Principles of<br>naval<br>Architecture                          | 3   | 考试 | √ | √ | 48 | 48 | 0  | 0 | 0  |   |  |  |     | 3-1 |     |  |  |  |  |  |  |  |
| 必修-专业<br>及方向课程<br>Stream<br>Courses |  |  | 1 | 1713004480 | 轮机概论<br>Introduction to<br>Marine<br>Engineering                        | 2   | 考查 |   | √ | 32 | 26 | 6  | 0 | 0  |   |  |  | 2-2 |     |     |  |  |  |  |  |  |  |
|                                     |  |  | 2 | 1713015950 | 航海气象学与海洋<br>学<br>Marine<br>Meteorology and<br>Oceanography              | 3   | 考试 | √ | √ | √  | 48 | 42 | 6 | 0  | 0 |  |  |     | 2-2 |     |  |  |  |  |  |  |  |
|                                     |  |  | 3 | 1713016541 | 航海学(上)<br>Marine Navigation   | 5   | 考试 | √ | √ | √  | 80 | 74 | 0 | 6  | 0 |  |  |     | 2-2 |     |  |  |  |  |  |  |  |
|                                     |  |  | 4 | 1713015940 | 远洋业务与海商法<br>International<br>Shipping Business<br>and Maritime Law      | 4   | 考试 | √ |   | √  | 64 | 60 | 0 | 4  | 0 |  |  |     |     | 3-1 |  |  |  |  |  |  |  |
|                                     |  |  | 5 | 1713016000 | 船舶结构与设备<br>Ship Construction<br>and Equipment                           | 3   | 考试 | √ | √ | √  | 48 | 40 | 8 | 0  | 0 |  |  |     |     | 3-1 |  |  |  |  |  |  |  |
|                                     |  |  | 6 | 1713016020 | GMDSS 通信设备与<br>业务<br>GMDSS<br>Communication<br>Equipment and<br>Service | 4   | 考试 | √ | √ | √  | 64 | 64 | 0 | 0  | 0 |  |  |     |     | 3-1 |  |  |  |  |  |  |  |
|                                     |  |  | 7 | 1713016560 | 船舶操纵<br>Ship Handling   | 3   | 考试 | √ | √ | √  | 48 | 48 | 0 | 0  | 0 |  |  |     |     | 3-1 |  |  |  |  |  |  |  |
|                                     |  |  | 8 | 1713016570 | 船舶导航雷达<br>Shipborne<br>Navigation Radar                                 | 2   | 考试 | √ | √ | √  | 32 | 32 | 0 | 0  | 0 |  |  |     |     | 3-1 |  |  |  |  |  |  |  |
|                                     |  |  | 9 | 1713016580 | 航海仪器<br>Nautical<br>Instruments   | 4   | 考试 | √ | √ | √  | 64 | 46 | 0 | 18 | 0 |  |  |     |     | 3-1 |  |  |  |  |  |  |  |

大连海事大学本科专业培养计划

|          |            |  |     |    |   |   |   |      |      |     |     |    |  |  |  |  |  |  |  |     |  |  |  |  |
|----------|------------|--|-----|----|---|---|---|------|------|-----|-----|----|--|--|--|--|--|--|--|-----|--|--|--|--|
| 10       | 1713016590 | 船舶避碰与值班<br>Ship Collision<br>Avoidance and<br>Watchkeeping | 3.5 | 考试 | √ | √ | √ | 56   | 56   | 0   | 0   | 0  |  |  |  |  |  |  |  | 3-1 |  |  |  |  |
| 11       | 1713015960 | 船舶货运<br>Marine Cargo<br>Operations                         | 4   | 考试 | √ | √ | √ | 64   | 64   | 0   | 0   | 0  |  |  |  |  |  |  |  | 3-2 |  |  |  |  |
| 12       | 1713015970 | 航海英语会话与评估<br>Maritime English<br>Listening and<br>Speaking | 2   | 考查 |   |   | √ | 32   | 16   | 0   | 16  | 0  |  |  |  |  |  |  |  | 3-2 |  |  |  |  |
| 13       | 1713015990 | 航海英语阅读<br>Maritime English<br>Reading<br>Comprehension     | 4   | 考试 | √ | √ | √ | 64   | 64   | 0   | 0   | 0  |  |  |  |  |  |  |  | 3-2 |  |  |  |  |
| 14       | 1713016010 | 船舶安全管理<br>Ship Safety<br>Management                        | 3   | 考试 | √ | √ | √ | 48   | 48   | 0   | 0   | 0  |  |  |  |  |  |  |  | 3-2 |  |  |  |  |
| 15       | 1713016542 | 航海学(下)<br>Marine Navigation                                | 3   | 考试 | √ | √ | √ | 48   | 42   | 0   | 6   | 0  |  |  |  |  |  |  |  | 3-2 |  |  |  |  |
| 16       | 1713016550 | 电子海图显示与信息系统<br>ECDIS                                       | 2   | 考试 | √ | √ | √ | 32   | 12   | 0   | 20  | 0  |  |  |  |  |  |  |  | 3-2 |  |  |  |  |
| 合计 Total |            |  | 129 |    |   |   |   | 2160 | 1770 | 218 | 118 | 54 |  |  |  |  |  |  |  |     |  |  |  |  |

表3: 航海技术(卓越工程师) 限选课程设置及进程

Table3: Nautical Science[Excellent Engineer] Curriculum of Restrictive Optional Courses

| 课程性质<br>Course<br>Nature | 课程类别<br>Course<br>Categories | 类别备注<br>Course<br>Categories<br>Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                                 | 学分<br>Credits | 考核方式<br>Testin<br>g<br>method | 是否学位课<br>Degree<br>Course | 是否核心课程<br>CORE<br>COURSE | 是否必选<br>Required<br>Course | 学时<br>Teaching Hours |                    |                            |                 |                                 | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                        |     |     |
|--------------------------|------------------------------|--|-----------|---------------------|---|---------------|-------------------------------|---------------------------|--------------------------|----------------------------|----------------------|--------------------|----------------------------|-----------------|---------------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|------------------------|-----|-----|
|                          |                              |  |           |                     |   |               |                               |                           |                          |                            | 合计<br>Total          | 讲课<br>Lecture<br>s | 实验<br>Laborator<br>y Hours | 实践<br>Practicum | 上机<br>Computer<br>Operatio<br>n | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth<br>Term |     |     |
|                          |                              |  |           |                     |   |               |                               |                           |                          |                            |                      |                    |                            |                 |                                 | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                    | 4-1 | 4-2 |
| 限选课<br>Restrictive       | 限选-专业<br>及方向课程<br>(智能航运)     |  | 1         | 1713024660          | 智能航海导论<br>Intelligent<br>Navigation<br>Introduction | 1             | 考查                            |                           |                          |                            | 16                   | 16                 | 0                          | 0               | 0                               |                    |     |     |                     | 2-1 |     |                    |     |             |                        |     |     |

## 航海技术

|  |   |            |  |   |    |    |  |  |  |    |    |    |    |   |    |  |  |     |     |  |  |  |  |  |  |  |  |          |     |
|--|---|------------|--|---|----|----|--|--|--|----|----|----|----|---|----|--|--|-----|-----|--|--|--|--|--|--|--|--|----------|-----|
| tive<br>Optiona<br>1<br>Courses              | 方向)<br>Stream<br>Courses  | 2          | 1713024620                                 | 智能船岸基支持系<br>系统与远程控制<br>Shore support<br>system and remote<br>control of<br>Intelligent Ship | 2  | 考查 |  |  |  | 32 | 32 | 0  | 0  | 0 |    |  |  | 2-2 |     |  |  |  |  |  |  |  |  |          |     |
|  |   | 3          | 1713024640                                 | 物联网与船联网技<br>术<br>Technology on<br>Internet of<br>things and<br>Internet of<br>vessels       | 1  | 考查 |  |  |  |    | 16 | 16 | 0  | 0 | 0  |  |  |     | 2-2 |  |  |  |  |  |  |  |  |          |     |
|  |   | 4          | 1713016090                                 | 船舶建模与控制<br>Math Models and<br>Ship Controls   | 1  | 考查 |  |  |  |    | 16 | 16 | 0  | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  | 3-1      |     |
|  |   | 5          | 1713024630                                 | 航运大数据技术与<br>应用<br>Big data<br>techniques and<br>applications on<br>shipping                 | 1  | 考查 |  |  |  |    | 16 | 16 | 0  | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  | 3-1      |     |
|  | 限选-公共<br>基础及通识<br>教育课<br>Public<br>basic and<br>general<br>education<br>courses | 1          | 1713000370                                 | 计算机程序设计基<br>础 (C)<br>Basics of<br>Computer<br>Programming(C)                                | 3  | 考试 |  |  |  |    | 48 | 24 | 0  | 0 | 24 |  |  |     |     |  |  |  |  |  |  |  |  | 晚间排<br>课 |     |
|  |   | 2          | 1713025590                                 | Python 数据分析<br>Data Analysis<br>with Python   | 2  | 考查 |  |  |  |    | 32 | 16 | 16 | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  |          |     |
|  |   | 3          | 1713025600                                 | MATLAB 语言与可视<br>化仿真<br>MATLAB Language<br>and Visual<br>Simulation                          | 2  | 考查 |  |  |  |    | 32 | 16 | 16 | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  |          |     |
|  |   | 4          | 1713016040                                 | 英语阅读<br>English Reading<br>Comprehension  | 2  | 考查 |  |  |  |    | 32 | 32 | 0  | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  |          | 2-1 |
|  |   | 5          | 1713000250                                 | 英语中级口语<br>Intermediate Oral<br>English  | 2  | 考查 |  |  |  |    | 32 | 32 | 0  | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  |          | 3-1 |
| 限选-专业<br>(类) 基础课<br>Disciplina<br>ry Courses | 1   | 1713018510 | 专业导论 (航海)<br>Introduction of<br>Profession | 0.5   | 考查 |    |  |  |  | 8  | 8  | 0  | 0  | 0 |    |  |  |     |     |  |  |  |  |  |  |  |  | 1-1      |     |
|  | 限选-专业<br>及方向课程<br>(海上执法<br>模块)<br>Stream<br>Courses                             | 1          | 1713006410                                 | 法理学<br>Jurisprudence of<br>Law  | 3  | 考试 |  |  |  |    | 48 | 48 | 0  | 0 | 0  |  |  |     |     |  |  |  |  |  |  |  |  |          | 2-1 |

大连海事大学本科专业培养计划

|                              |    |            |   |     |    |  |  |     |     |    |    |    |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|----|------------|---|-----|----|--|--|-----|-----|----|----|----|-----|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 限选-专业及方向课程<br>Stream Courses | 1  | 1713016060 | 船员心理学<br>Psychology for Seafarers                           | 1.5 | 考查 |  |  | 24  | 24  | 0  | 0  | 0  | 1-1 |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 2  | 1713022430 | 中国海员史<br>the History of Chinese Seafarers                   | 2   | 考查 |  |  | 32  | 32  | 0  | 0  | 0  | 1-1 |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 3  | 1713016050 | 海事调查与案例分析<br>Investigation and Analysis of Marine Accidents | 1   | 考查 |  |  | 16  | 16  | 0  | 0  | 0  |     |  |  |  |  |  |  | 2-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 4  | 1713016120 | 航海涉外礼仪<br>Maritime International Etiquette                  | 1   | 考查 |  |  | 16  | 16  | 0  | 0  | 0  |     |  |  |  |  |  |  | 2-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 5  | 1713016140 | 海事管理概论<br>Introduction to Maritime Administration           | 1   | 考查 |  |  | 16  | 16  | 0  | 0  | 0  |     |  |  |  |  |  |  | 2-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 6  | 1713016070 | 海洋船舶气象定线<br>Weather Routing of Ship                         | 1   | 考查 |  |  | 16  | 12  | 4  | 0  | 0  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 7  | 1713016100 | 特种货物运输<br>Special Cargoes Operations                        | 2   | 考查 |  |  | 32  | 32  | 0  | 0  | 0  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 8  | 1713016110 | LNG 船货物运输<br>Cargo Operations of LNG Carriers               | 2   | 考查 |  |  | 32  | 16  | 0  | 16 | 0  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 9  | 1713016130 | 国际海事发展动态<br>Development of International Maritime Issues    | 1   | 考查 |  |  | 16  | 16  | 0  | 0  | 0  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                              | 10 | 1713022080 | GMDSS 通信英语<br>GMDSS Service                                 | 2   | 考试 |  |  | 32  | 28  | 4  | 0  | 0  |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 合计 Total                     |    |            |   | 35  |    |  |  | 560 | 480 | 40 | 16 | 24 |     |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

表 4: 航海技术(卓越工程师) 任选课程设置及进程

Table4: Nautical Science[Excellent Engineer] Free Electives System

1. 全校性选修课程分为人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程及其他课程。其中, 1) 必修课不设“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。2) 必修课设置“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。具体课程见每年度选课系统中的全校选修课程一览。

The elective courses are divided into “humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses” and “other courses”. Among them, 1) The majors without “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. 2) The majors with “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. For specific courses, please refer to the list of elective courses in the course selection system of each year.

2. 学生参加学校、院系组织的第二课堂活动, 并符合学校有关学籍管理规定, 可获得相应任选课学分, 具体参考学生手册中的学籍管理规定部分。

If students participate in the second classroom activities organized by the school and departments, and meet the school’s relevant regulations on student status management, they can obtain corresponding optional course credits. For details, please refer to the regulations on student status management in the student handbook.

表 5: 航海技术(卓越工程师) 实践环节课程设置及进程

Table5: Nautical Science[Excellent Engineer] Practical Training System

| 课程性质<br>Course Nature       | 课程类别<br>Course Categories | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                                  | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE COURSE | 是否必修<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |         |  |  |
|-----------------------------|---------------------------|----------------------------------|-----------|---------------------|--|---------------|------------------------|------------------------|-----------------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|---------|--|--|
|                             |                           |                                  |           |                     |  |               |                        |                        |                       |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |         |  |  |
|                             |                           |                                  |           |                     |  |               |                        |                        |                       |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2     |  |  |
| 必修课程组<br>Compulsory Courses | 必修-实践环节<br>Practicum      |                                  | 1         | 1713000450          | 公益劳动<br>Labor Week                                   | 0             | 考查                     |                        |                       | √                       | 0                    | 0              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     | 课外学时 32 |  |  |
|                             |                           |                                  | 2         | 1713000440          | 军事训练<br>Military Training                            | 3             | 考查                     |                        |                       | √                       | 90                   | 0              | 0                      | 90              | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     |     |         |  |  |
|                             |                           |                                  | 3         | 1713024682          | 实船实习(卓越)(下)<br>Ship Practice                         | 4             | 考查                     |                        |                       | √                       | 680                  | 0              | 680                    | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     | 4-1     |  |  |
|                             |                           |                                  | 4         | 1713016680          | 毕业论文(卓越)<br>Graduation Thesis                        | 6             | 考查                     |                        |                       | √                       | 180                  | 0              | 0                      | 180             | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     | 4-2     |  |  |
|                             |                           |                                  | 5         | 1713004710          | 精通救生艇筏和救助艇<br>Proficiency in Life boat & Rescue boat | 1             | 考查                     |                        |                       | √                       | 28                   | 0              | 0                      | 28              | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     | 2-2     |  | 4-9 班, 第 1-8 周; 10-15 班, 第 8-15 周; 合格证书培训; 实践中心排课; |

|  |  |  |    |            |  |     |    |  |  |   |    |    |   |    |   |  |  |  |  |  |  |     |  |  |     |     |  |   |
|--|--|--|----|------------|--|-----|----|--|--|---|----|----|---|----|---|--|--|--|--|--|--|-----|--|--|-----|-----|--|---|
|  |  |  | 6  | 1713004720 | 精通急救<br>Proficiency in<br>First Aid        | 1   | 考查 |  |  | √ | 30 | 0  | 0 | 30 | 0 |  |  |  |  |  |  | 2-2 |  |  |     |     |  | 4-9班, 第1-8周;<br>10-15班, 第8-15周; 合格证书培训; 实践中心排课; |
|  |  |  | 7  | 1713017530 | 高级消防<br>Advanced Fire<br>Fighting          | 1   | 考查 |  |  | √ | 36 | 0  | 0 | 36 | 0 |  |  |  |  |  |  | 2-2 |  |  |     |     |  | 4-9班, 第1-8周;<br>10-15班, 第8-15周; 合格证书培训; 实践中心排课; |
|  |  |  | 8  | 1713025610 | 船艺训练<br>Seamanship<br>Training             | 1   | 考查 |  |  | √ | 30 | 0  | 0 | 30 | 0 |  |  |  |  |  |  | 2-2 |  |  |     |     |  |   |
|  |  |  | 9  | 1713026090 | 基本安全<br>Basic Safety                       | 2.5 | 考查 |  |  | √ | 86 | 54 | 0 | 32 | 0 |  |  |  |  |  |  | 2-2 |  |  |     |     |  | 4-9班, 第1-8周;<br>10-15班, 第8-15周; 合格证书培训; 实践中心排课; |
|  |  |  | 10 | 1713016190 | 船舶保安<br>Ship Security                      | 0.5 | 考查 |  |  | √ | 20 | 0  | 0 | 20 | 0 |  |  |  |  |  |  | 2-3 |  |  |     |     |  | 4-9班, 第8周;<br>10-15班, 第15周;<br>学院排课;            |
|  |  |  | 11 | 1713016200 | GMDSS 设备操作<br>GMDSS Equipment<br>Operation | 2   | 考查 |  |  | √ | 60 | 0  | 0 | 60 | 0 |  |  |  |  |  |  |     |  |  | 3-1 |     |  |   |
|  |  |  | 12 | 1713016160 | 货物积载与系固<br>Cargo Stowage and<br>Securing   | 1   | 考查 |  |  | √ | 40 | 0  | 0 | 40 | 0 |  |  |  |  |  |  |     |  |  |     | 3-2 |  |   |

## 航海技术

|          |  |  |    |            |  |    |    |  |   |   |      |    |     |      |   |  |  |  |  |  |  |     |  |  |  |
|----------|--|--|----|------------|--|----|----|--|---|---|------|----|-----|------|---|--|--|--|--|--|--|-----|--|--|--|
|          |  |  | 13 | 1713016170 | 航线设计<br>Ship Course Design             | 1  | 考查 |  |   | √ | 30   | 0  | 0   | 30   | 0 |  |  |  |  |  |  | 3-2 |  |  |  |
|          |  |  | 14 | 1713024681 | 实船实习(卓越)(上)<br>Ship Practice           | 4  | 考查 |  |   | √ | 680  | 0  | 0   | 680  | 0 |  |  |  |  |  |  | 3-2 |  |  |  |
|          |  |  | 15 | 1713016180 | 驾驶台资源管理<br>Bridge Resources Management | 1  | 考查 |  | √ | √ | 40   | 20 | 20  | 0    | 0 |  |  |  |  |  |  | 3-3 |  |  |  |
|          |  |  | 16 | 1713016210 | 雷达操作与应用<br>Radar Operation             | 1  | 考查 |  |   | √ | 40   | 0  | 0   | 40   | 0 |  |  |  |  |  |  | 3-3 |  |  |  |
| 合计 Total |  |  |    |            |  | 30 |    |  |   |   | 2070 | 74 | 700 | 1296 | 0 |  |  |  |  |  |  |     |  |  |  |

表 6: 航海技术(卓越工程师) 讲座设置及进程

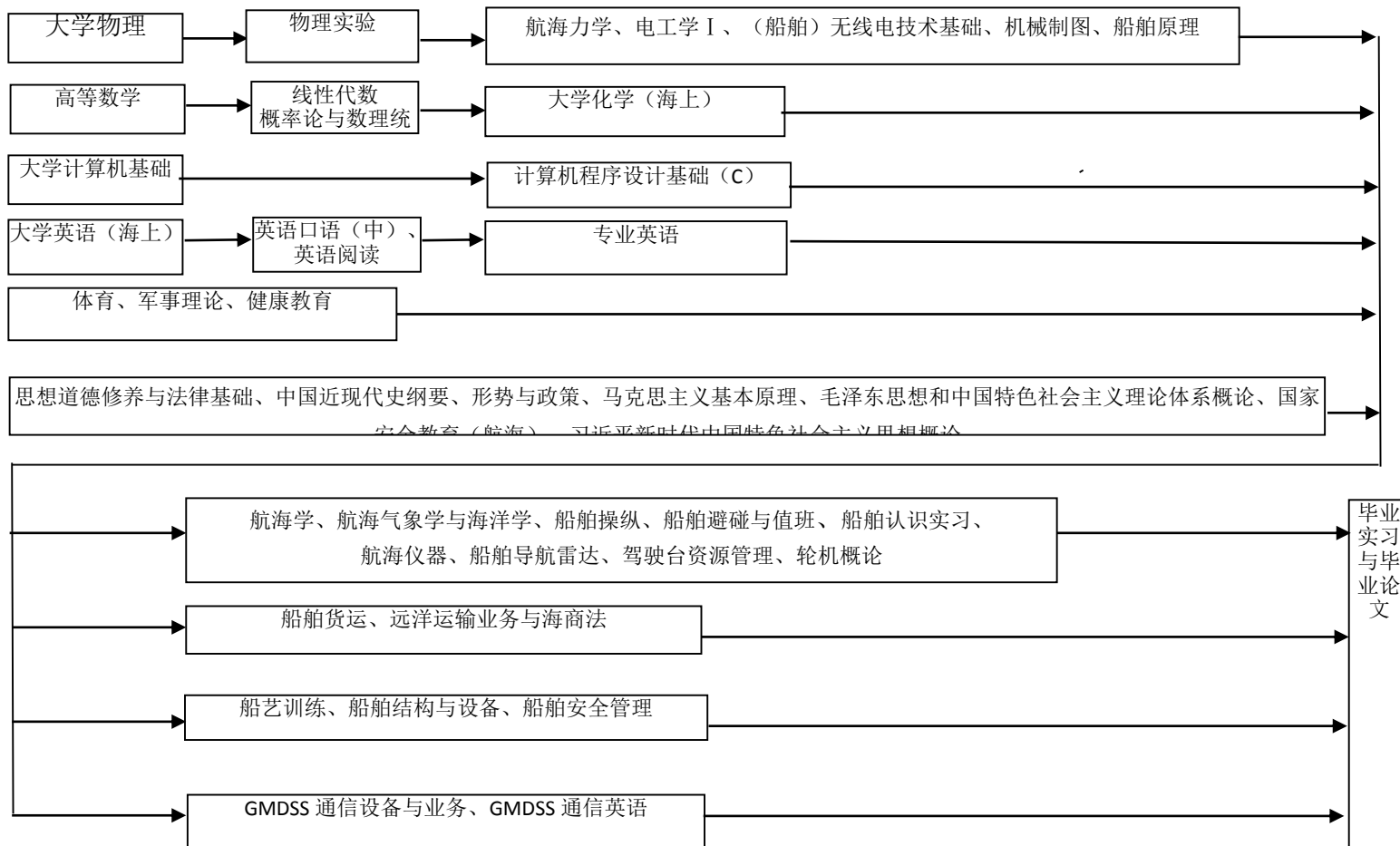
Table6: Nautical Science[Excellent Engineer] General Lectures System

| 课程性质<br>Course Nature      | 课程类别<br>Course Categories     | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                               | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |       |                                 |        |
|----------------------------|-------------------------------|----------------------------------|-----------|---------------------|---|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-------|---------------------------------|--------|
|                            |                               |                                  |           |                     |   |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |       |                                 |        |
|                            |                               |                                  |           |                     |   |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1   | 4-2                             |        |
| 必修课程<br>Compulsory Courses | 必修-讲座<br>Lectures and Seminar |                                  | 1         | 1713000480          | 入学教育<br>Admission Orientations                    | 0             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     | 机动;;; |                                 |        |
|                            |                               |                                  | 2         | 1713025340          | 形势与政策   | 2             | 考查                     |                        |                | √                       | 64                   | 64             | 0                      | 0               | 0                        | 1-1                | 1-2 |     | 2-1                 | 2-2 |     | 3-1                | 3-2 |             | 4-1                 | 4-2   | 4个学年的第1、2学期分别设8学时, 2学分设置在第4-1学期 |        |
|                            |                               |                                  | 3         | 1713000520          | 职业生涯规划<br>Career Planning for University Students | 0.5           | 考查                     |                        |                | √                       | 8                    | 8              | 0                      | 0               | 0                        |                    | 1-2 |     |                     |     |     |                    |     |             |                     |       | 晚间排课;                           |        |
|                            |                               |                                  | 4         | 2113000510          | 大学生健康教育<br>Health education of college students   | 1             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        |                    | 1-2 |     |                     |     |     |                    |     |             |                     |       |                                 | 课外学时16 |
|                            |                               |                                  | 5         | 2113000300          | 国家安全教育(航海)<br>National Security Education         | 1             | 考查                     |                        |                | √                       | 16                   | 16             | 0                      | 0               | 0                        |                    |     | 1-3 |                     |     |     |                    |     |             |                     |       |                                 |        |

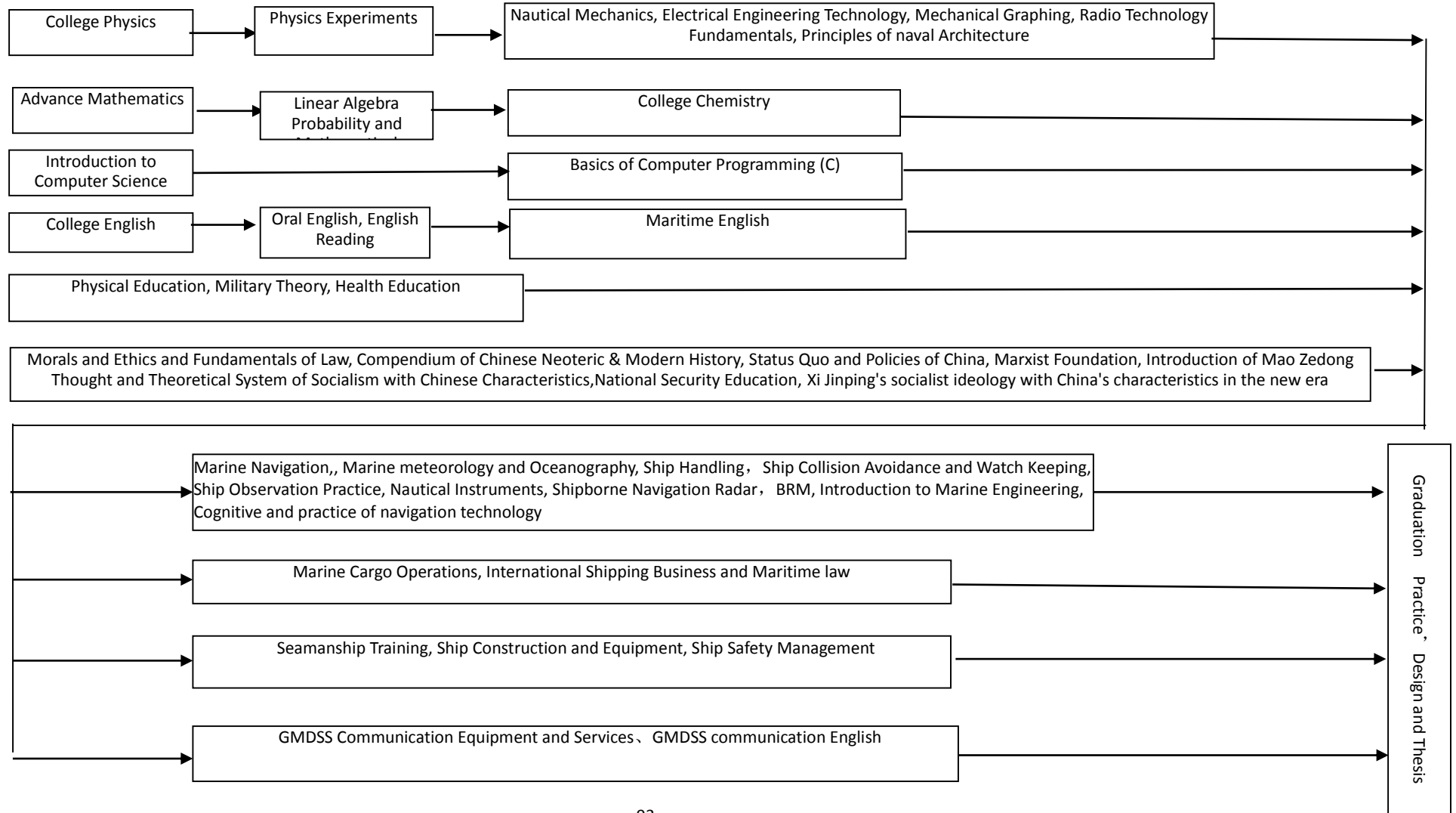
## 大连海事大学本科专业培养计划

|          |  |  |   |            |   |     |    |  |  |   |     |     |   |   |   |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |
|----------|--|--|---|------------|---|-----|----|--|--|---|-----|-----|---|---|---|--|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|
|          |  |  | 6 | 1713000530 | 就业指导<br>Career Guidance<br>for University<br>Students | 0.5 | 考查 |  |  | √ | 8   | 8   | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  | 3-1 |  |  |  |  |  |  |
| 合计 Total |  |  |   |            |   | 5   |    |  |  |   | 128 | 128 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |

## 航海技术（卓越工程师）（校企）专业选课指



### Course Selection Flowchart (Excellent Engineer Class)



# 航海技术(校企合作班)专业本科培养计划（2022）

## Undergraduate Program for Nautical Science Major

### [School and Enterprise Cooperation Class]

#### 一、专业简介

##### I. Program Profile

大连海事大学航海技术专业在国内外享有较高的知名度，1992年入选交通部“八五”首批重点建设学科专业，2006年入选辽宁省高等学校示范专业，2007年入选国家高等学校特色专业建设点，2011年入选辽宁省高等学校综合改革试点专业。航海技术专业本科毕业生具有较强的实践动手能力、英语运用能力、业务能力和良好的团队协作精神，深受港航企事业单位的好评。航海技术专业毕业生就业主要面向各航运公司从事远洋运输工作，部分毕业生到海事局、船级社、引航站或航海类院校等港航企事业单位从事相关工作。

The nautical science in Navigation College, DMU, enjoys a high reputation and popularity both at home and abroad. In 1992, it was selected by Ministry of Transport as one of the National Key-building Disciplines in State's Eighth Five-Year Plan. This Program was rated as one of the demonstration disciplines of tertiary education in Liaoning Province in 2006, selected as one of the Featuring Specialties under national tertiary education construction in 2007, and appointed as one of the trial units for comprehensive reformation in tertiary education of Liaoning Province in 2011. In the nautical science, the students will be trained into high quality and competent mariners. They are professionals with high English level and team-work spirits, and enjoy high reputation in all shipping industries, including shipping companies, port management companies, maritime institutions, maritime safety administrations, classification societies, pilot stations, and maritime colleges and universities.

#### 二、培养目标

##### II. Program Objectives

本专业培养具备良好的人文素养，扎实的自然科学基础知识和航海技术基本理论，系统掌握船舶航行、货物积载与装卸、船舶作业管理和人员管理、船舶通信等方面的知识和技能，综合素质好、安全与环保意识强、具有国际竞争能力的高级航海人才。毕业生可从事远洋船舶驾驶、船舶引航、管理、航海教育等工作。

The program cultivates high-level marine talents who should possess good comprehensive quality, strong consciousness of safety and environment protection, and competitiveness in international shipping industries, with good humanistic accomplishments, as well as:

- ✓ a solid knowledge-base in natural science and theories of nautical science;
- ✓ knowledge and skills in the ship navigation, cargo stowage and handling;
- ✓ ship operation management;
- ✓ human resource management;
- ✓ and shipborne communication.

Graduates of the program are projected to engage in the practices of ocean-going ship

handling, ship pilotage, management, as well as maritime education.

### 三、毕业要求

#### III. Graduation Requirements

| 毕业要求   | 毕业要求指标点分解   |
|--|---|
| <p><b>毕业要求 1</b></p> <p><b>Graduation Requirement 1</b></p> <p><b>工程知识:</b> 具备将数学、自然科学、工程基础和专业<br/>知识应用于航海技术领域复杂工程问题的能力。</p> <p><b>Engineering knowledge:</b> the ability to apply<br/>mathematics, natural sciences, engineering fundamentals<br/>and expertise to complex engineering issues in the field<br/>of nautical science.</p>   | <p>1-1 能够将数学、自然科学、工程基础和专业<br/>知识运用到复杂航海技术问题的恰当表述中</p> <p>1-1 to use the mathematics, natural sciences,<br/>engineering fundamentals and expertise to<br/>the appropriate statements of complex nautical<br/>science issues</p> <p>1-2 能够将工程和专业<br/>知识用于航海技术问题的分析、设计、计算、<br/>模拟与改进</p> <p>1-2 can be used for engineering and<br/>professional knowledge of nautical science<br/>problems in the analysis, design, calculation,<br/>simulation and improvement</p> <p>1-3 熟悉航海技术行业特点, 具备较好的工程<br/>思维和实践技能, 并可应用于解决复杂工程问<br/>题。</p> <p>1-3 to familiar with the characteristics of<br/>nautical science field, with good engineering<br/>thinking and practical skills, and can be applied<br/>to solve complex engineering problems.</p> |
| <p><b>毕业要求 2</b></p> <p><b>Graduation Requirement 2</b></p> <p><b>问题分析:</b> 能够应用数学、自然科学和工程<br/>科学的基本原理, 识别、表达、并通过文献研<br/>究分析复杂航海技术问题, 以获得有效结论。</p> <p><b>Problem Analysis:</b> The basic principles of<br/>mathematics, natural sciences and engineering<br/>sciences can be applied to identify, express,<br/>and analyze complex nautical science problems<br/>through literature research to obtain effective<br/>conclusions.</p>  | <p>2-1 能够识别和判断复杂航海技术问题的<br/>核心特征与关键环节</p> <p>2-1 to identify and determine the core of<br/>complex nautical science problems and key<br/>links</p> <p>2-2 能够运用基本原理和文献资料辅助正确<br/>表达解决复杂航海技术问题的技术方案, 证<br/>实解决方案的合理性。</p> <p>2-2 can apply basic principles and<br/>document literature to express the technical<br/>route to solve complex nautical science<br/>problems, and prove the rationality of the<br/>technical route.</p>  |
| <p><b>毕业要求 3</b></p> <p><b>Graduation Requirement 3</b></p> <p><b>设计/开发解决方案:</b> 能够设计针对复杂航海<br/>技术问题的解决方案, 设计满足特定需求的工<br/>作流程, 并能够在设计环节中体现创新意识, 考<br/>虑社会、健康、安全、法律、文化以及环境等<br/>因素。</p> <p><b>Design / develop solutions:</b> Design<br/>solutions for complex nautical science<br/>problems, design processes that meet specific<br/>needs, and be able to embody innovation<br/>awareness in the design process, taking into<br/>account social, health, safety, and law, culture<br/>and environment</p> | <p>3-1 能够进行复杂工程问题的针对性调研, 确<br/>定设计目标</p> <p>3-1 be able to carry out complex engineering<br/>problems targeted research to determine the<br/>design goals</p> <p>3-2 能够在环境、安全、法律、社会、经济等<br/>现实约束条件下, 依照相关规则选取工艺单<br/>元、系统或流程并进行优选, 体现创新意识</p> <p>3-2 can be in the environment, security,<br/>legal, social, economic and other realistic<br/>constraints, in accordance with the relevant<br/>rules to design working processes that<br/>meetspecific needs and make optimization,<br/>to reflect the sense of innovation</p> <p>3-3 能够对解决方案进行合理计算、评价, 并<br/>用图纸、报告等形式呈现</p> <p>3-3 can calculate and evaluate the solution,<br/>can use drawings, reports and other forms to<br/>show results.</p>                                    |

|   |   |
|---|---|
| and other factors.  |   |
| <b>毕业要求 4</b><br><b>Graduation Requirement 4</b><br><b>研究:</b> 能够基于科学原理并采用科学方法对复杂航海技术问题进行研究, 并能得到合理有效的结论<br><b>Research:</b> It is possible to study complex nautical science problems based on scientific principles and scientific methods, and obtain a rational and effective result.   | 4-1 针对工程问题的技术验证, 能够制定合理的研究方案<br>4-1 for technical problems of engineering verification, to develop a reasonable research program.<br>4-2 能够基于专业理论, 根据对象特征, 选择研究路线, 设计可行的实验实践方案, 获取合理有效的结论<br>4-2 can be based on professional theory, according to the characteristics of the object, select the research route, the design of feasible experimental program, obtain rational and effective results.  |
| <b>毕业要求 5</b><br><b>Graduation Requirement5</b><br><b>使用现代工具:</b> 能够针对复杂航海技术问题, 选择与使用恰当的技术、资源、现代工程工具和信息技术工具, 并能够理解其局限性<br><b>The use of modern tools:</b> the ability to select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex nautical science issues, and the ability to understand its limitations   | 5-1 能够较为熟练运用现代工程工具和信息技术工具, 表达复杂航海技术问题的解决方案, 能理解其局限性<br>5-1 can use modern engineering tools and information technology tools to express complex the solution of nautical science problems, and understand its limitations<br>5-2 能够运用文献检索工具, 获取复杂航海技术问题的相关信息与技术最新进展<br>5-2 can use literature search tools to obtain relevant information and latest technology development in complex nautical science problems.   |
| <b>毕业要求 6</b><br><b>Graduation Requirement6</b><br><b>工程与社会:</b> 能够基于工程相关背景知识进行合理分析, 评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响, 并理解应承担的责任<br><b>Engineering and Society:</b> The ability to conduct a rational analysis based on engineering-related background knowledge, evaluate the impact of professional engineering practices and complex engineering problem solutions on society, health, safety, law and culture, and understand the responsibilities that should be borne | 6-1 具有工程实习和社会实践的经历<br>6-1 the experience of engineering practice and social practice<br>6-2 能够识别和分析航海技术实践和复杂工程问题解决方案对社会、健康、安全、文化的影响<br>6-2 the ability to identify and analyze the impact of nautical science practices and complex engineering problem solutions on social, health, safety and culture<br>6-3 熟悉复杂航海技术问题的解决中应遵循的法律法规和职业道德规范, 明确承担的责任和义务。<br>6-3 familiar with the complex nautical science problems should be resolved in accordance with the laws and regulations and professional ethics, clearly assume responsibility and obligations. |
| <b>毕业要求 7</b><br><b>Graduation Requirement7</b><br><b>环境和可持续发展:</b> 能够理解和评价针对复杂航海技术问题的工程实践对环境、社会可持续发展的影响<br><b>Environment and Sustainable Development:</b> The   | 7-1 理解环境保护和社会可持续发展的内涵和意义, 能够正确评价工程实践活动对环境的影响<br>7-1 understand the environmental protection and social sustainable development of the connotation and significance, can correctly evaluate the engineering practice activities on the environment   |

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| <p>ability to understand and evaluate the impact of engineering practices on complex nautical science issues on environmental and social sustainable development</p>  | <p>7-2 能够在复杂工程问题解决方案中体现对节能和环境友好的要求，客观评价解决方案对社会可持续发展的影响<br/>7-2 to reflect the energy-saving and environment-friendly requirements in the complex engineering problem solution , objectively evaluate the effects of solutions on social sustainable development.</p>  |
| <p><b>毕业要求 8</b><br/><b>Graduation Requirement8</b><br/><b>职业规范:</b> 具有人文社会科学素养、社会责任感，能够在工程实践中理解并遵守工程职业道德和规范，履行责任<br/><b>Professional norms:</b> Have humanities and social science literacy, social responsibility, understand and comply with engineering ethics and norms in engineering practice, to fulfill responsibilities</p>   | <p>8-1 具有正确的人生观、价值观和世界观，了解国情，维护国家利益，具有推动民族复兴和社会进步的责任感<br/>8-1 have the correct outlook on life, values and world outlook, understand the national conditions, safeguard national interests, with the promotion of national rejuvenation and social progress of the sense of responsibility</p> <p>8-2 具有人文社会科学素养，具备履行社会职责的身心条件<br/>8-2 have the humanities and social science literacy, have the physical and psychological conditions to fulfill social responsibilities</p> <p>8-3 理解航海技术伦理的核心理念，在工程实践中自觉遵守职业道德和规范，具有法律意识<br/>8-3 understand the core concept of nautical science ethics, consciously abide by professional ethics and norms in engineering practice, with legal awareness.</p> |
| <p><b>毕业要求 9</b><br/><b>Graduation Requirement9</b><br/><b>个人和团队:</b> 能够在多学科背景下的团队中承担个体、团队成员以及负责人的角色<br/><b>Individuals and Teams:</b> The ability to take on individual, team members, and responsible roles in a multidisciplinary team</p>   | <p>9-1 具有团队协作意识，具有一定的组织管理能力和较强的自我控制能力、人际交往能力<br/>9-1 have a sense of teamwork, with a certain degree of organizational management and strong self-control, interpersonal skills</p> <p>9-2 能够独立完成团队分配的工作，并与其他团队成员有效沟通，共享信息<br/>9-2 be able to independently complete the work of team distribution, and other members of the effective communication and sharing of information</p> <p>9-3 了解与本专业相关学科等领域的技术衔接，了解作为团队负责人应具备的素质与能力<br/>9-3 understand related disciplines and other areas of technical convergence, Understand the qualities and abilities of a team leader.</p>  |
| <p><b>毕业要求 10</b><br/><b>Graduation Requirement10</b><br/><b>沟通:</b> 具备一定的国际视野，能够有效在跨文化背景下进行沟通和交流。能够就复杂工程问题与业界同行及社会公众进行沟通和交流。<br/><b>Communication:</b>Have a certain international perspective, to communicate and discuss in cross-cultural background, and theability to communicate and discuss effectively with industry peers and the public on complex engineering issues.</p> | <p>10-1 能够使用英语，在跨文化背景下进行有效沟通交流<br/>10-1be able to use English to communicate in the context of cross-cultural</p> <p>10-2 了解航海技术专业的国际发展趋势、研究热点，能够通过口头、书面、图表等方式表达思想，与业界同行及社会公众进行沟通和交流。通过国家主管机关规定的考试和评估，具备规定的海上资历，可取得海洋船舶驾驶员相关的适任证书。<br/>10-2 to understand the international development trends, research hot spots of nautical science, and express ideas through oral, written, charts, etc., and communicate and</p>  |

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|  | discuss effectively with industry peers and the public, pass the required test and assessment by the national authority, possess required sea service, and obtain the relevant competency certificate for officers working on ocean-going ships.   |
| <b>毕业要求 11</b><br><b>Graduation Requirement11</b><br><b>项目管理:</b> 理解工程管理原理与决策方法, 并能在实践中予以应用<br><b>Project management:</b> To understand the principles of project management and decision-making methods, and can be applied in practice.              | 11-1 能够对行业项目的工艺路线、工艺方案进行基本技术经济分析和比较<br>11-1 do technical and economic analysis and have comparison of the technological route and process plan.<br>11-2 了解行业项目的实施过程, 掌握工程项目运营的相关技术与管理知识<br>11-2 understand the project implementation process, master the related technology and management knowledge of engineering project operation.  |
| <b>毕业要求 12</b><br><b>Graduation Requirement12</b><br><b>终身学习:</b> 具有自主学习和终身学习的意识, 有不断学习和适应发展的能力<br><b>Lifelong learning:</b> with independent learning and lifelong learning awareness, have the ability to continue to learn and adapt to development | 12-1 具有自主学习和终身学习意识, 具备终身学习的知识基础, 掌握自主学习的方法, 了解拓展知识和能力的途径<br>12-1 with independent learning and lifelong learning awareness, with a lifelong learning knowledge base, master the way of self-learning, understanding of ways to expand knowledge and ability<br>12-2 能针对个人或职业发展需求, 采用合适的方法, 自主学习, 适应航海技术领域的发展<br>12-2 for personal or career development needs, to use appropriate methods to go on self-learning and adapt to the development of nautical science field. |

#### 四、特色课程

##### IV. Feature Courses

船艺训练、航海学、船舶结构与设备、船舶操纵、船舶避碰与值班、船舶货运、航海气象学与海洋学、船舶安全管理、航海仪器、船舶导航雷达、GMDSS 通信设备与业务、驾驶台资源管理

Seamanship Training, Marine Navigation, Ship Construction and Equipment, Ship Handling, Ship Collision Avoidance and Watch Keeping, Marine Cargo Operations, Marine meteorology and Oceanography, Ship Safety Management, Nautical Instruments, Shipborne Navigation Radar, GMDSS Communication Equipment and Services, Bridge Resources Management

#### 五、学制与学位

##### V. Duration and Degree

学制: 4 年

Program Duration: 4 years

授予学位: 工学学士学位

Degree conferred: Bachelor of Engineering

#### 六、学分要求

##### VI. Credit Requirement

188 学分

188 Credit

七、课程体系与毕业培养要求的对应关系矩阵

Corresponding Relation of Curriculum and Program Requirements

| 序号 | 毕业要求指标点<br>课程名称          | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|--------------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                          | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 1  | 专业导论 (航海技术)              | M     |     |     |       |     |       |     |     |       |     |       | M   |       |     | L   |       | M   |       | L   |     |       |     | H   |        |      |        |      | H      |      |
| 2  | 入学教育                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | H     | M   | M   | M     |     | H   |        |      | M      | H    |        |      |
| 3  | 形势与政策                    |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 4  | 军事理论                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | M   | M     | M   |     |       |     |     |        |      |        |      |        |      |
| 5  | 军事训练                     |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 6  | 体 育                      |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   |     |        |      |        |      |        |      |
| 7  | 马克思主义基本原理                |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 8  | 中国近现代史纲要                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 9  | 毛泽东思想和中国特色<br>社会主义理论体系概论 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 10 | 习近平新时代中国特色社会主义思想概论       |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 11 | 思想道德修养与<br>法律基础          |       |     |     |       |     |       |     |     |       |     |       | M   | M     | M   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 12 | 高等数学                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 13 | 线性代数                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 14 | 大学物理                     | H     | H   | H   | M     | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 15 | 大学物理实验                   |       |     |     | M     | M   |       |     |     | H     | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 16 | 大学英语 (含口语、听说)            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 17 | 航海英语阅读                   |       |     |     |       |     |       |     |     |       |     | H     |     |       |     |     |       | H   |       | H   |     |       |     | H   | H      |      |        | M    | M      |      |
| 18 | 大学计算机基础                  |       |     |     |       |     |       |     |     |       |     | H     | H   |       |     |     |       |     |       |     |     |       |     | M   | M      |      |        |      |        |      |
| 19 | 计算机程序设计基础 (C             |       |     |     |       |     |       |     |     |       |     | H     | H   |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |

航海技术

| 序号 | 毕业要求指标点<br>课程名称     | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |   |
|----|---------------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|---|
|    |                     | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |   |
|    | 语言)                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 20 | Python 数据分析         |       | H   |     |       |     |       |     |     | H     |     | H     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 21 | MATLAB 语言与可视化<br>仿真 |       | H   |     | H     |     |       |     |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 22 | 电工学 1               | H     |     |     |       |     | M     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 23 | 机械制图                |       | H   |     |       |     |       | M   | M   |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 24 | 航海力学                |       | H   |     |       |     | M     |     |     |       | L   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 25 | (船舶)无线电技术基础         | H     | M   |     |       |     | M     |     |     |       |     | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 26 | 大学化学 (海上)           |       | H   |     |       |     | M     | M   | M   |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |   |
| 27 | 逻辑学                 |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     | H      | H    |        |      |        |      |   |
| 28 | 航海专业数学              | H     | M   | H   |       | M   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        | M    |        |      |        |      |   |
| 29 | 船舶原理                | H     | H   | H   |       | M   |       |     |     |       |     |       |     |       | L   |     |       |     |       |     |     |       |     |     |        |      |        |      |        | L    |   |
| 30 | 远洋业务与海商法            |       |     |     |       |     | L     |     |     |       |     |       |     | M     | M   | M   |       |     |       |     | M   |       |     | M   |        |      |        |      | L      |      |   |
| 31 | 航海气象学与海洋学           | L     |     |     | M     |     |       |     |     |       |     |       |     |       | M   |     | M     | M   | L     |     |     |       |     |     |        | H    |        |      |        | L    |   |
| 32 | 船舶货运                | H     | H   | M   |       | H   |       |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        | M    |        |      |        |      |   |
| 33 | 轮机概论                | L     |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     | M     |     | H   |        |      |        |      |        |      | L |
| 34 | 航海英语会话与评估           |       |     |     |       |     |       |     |     |       |     | L     | L   |       |     |     |       |     |       |     |     |       |     |     | H      | H    |        |      |        |      |   |
| 35 | 船艺训练                |       |     | H   |       |     |       |     |     |       |     |       |     | H     |     |     |       |     |       |     |     | M     | M   |     |        | M    |        |      |        |      |   |
| 36 | 船舶结构与设备             |       | H   | H   | H     |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        | H    |        |      | H      |      |   |
| 37 | 航海学                 | M     | M   | H   | H     | M   | M     | L   | L   | L     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        | H    |        |      |        |      |   |
| 38 | 电子海图显示与信息系<br>统     |       | H   | H   | H     |     |       | M   |     |       | M   | M     |     |       |     | L   |       |     |       |     |     | L     |     |     | M      |      | M      |      |        |      | L |

大连海事大学本科专业培养计划

| 序号 | 毕业要求指标点<br>课程名称 |  | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|--|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 |  | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 39 | 船舶避碰与值班         |  |       | H   | H   | H     |     |       |     |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |
| 40 | 船舶操纵            |  |       | H   | H   | H     |     |       |     |     |       | H   |       |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |
| 41 | 船舶导航雷达          |  | M     |     |     |       |     |       |     |     | M     | M   |       |     | M     | M   | L   |       |     |       | M   |     |       |     | H   |        |      | M      |      |        |      |
| 42 | 船舶安全管理          |  |       |     |     |       |     |       | M   |     |       |     |       |     | L     | M   | M   | H     | M   | M     | H   | H   | M     |     | H   |        |      |        |      |        |      |
| 43 | 航海仪器            |  | M     | H   |     |       |     |       |     |     | H     | M   |       |     |       |     |     |       |     |       |     |     |       |     | H   |        |      |        |      |        |      |
| 44 | GMDSS 通信设备与业务   |  |       |     | H   |       |     |       | M   |     |       | M   | M     |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 45 | GMDSS 通信英语      |  |       |     | H   |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       | H   | H   |        |      |        |      |        |      |
| 46 | 海事调查与案例分析       |  | H     |     |     |       | H   |       |     |     |       |     |       |     |       | H   |     |       |     |       | H   |     |       |     |     |        |      |        |      |        |      |
| 47 | 船员心理学           |  |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     | M     | H   | M     | L   |     |       |     |     |        |      |        |      |        |      |
| 48 | 海洋船舶气象定线        |  | M     |     |     |       | M   |       |     |     |       |     |       |     |       |     | M   |       |     |       |     |     |       |     |     | L      |      |        | L    |        |      |
| 49 | 概率论与数理统计        |  | M     | M   | M   | H     | H   |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 50 | 船舶建模与控制         |  | M     | M   |     |       |     |       | H   |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        | M    | H      |      |        |      |
| 51 | 特种货物运输          |  |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 52 | LNG 船货物运输       |  |       |     |     | M     | M   |       |     |     | M     | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 53 | 航海涉外礼仪          |  |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     | M     | M   |       | L   |     |       |     | H   |        |      |        |      |        |      |
| 54 | 国际海事发展动态        |  |       |     |     |       | M   |       |     |     |       |     |       |     |       |     | L   | L     |     |       |     |     |       |     |     |        |      |        |      |        |      |
| 55 | 海事管理概论          |  | M     | M   | M   |       |     |       |     |     |       | M   |       |     |       |     |     |       |     |       | M   |     |       |     |     |        |      |        | L    |        |      |
| 56 | 宏观经济学           |  |       |     |     |       |     |       | L   |     |       |     |       |     |       |     |     |       |     |       |     |     | M     |     |     | M      |      |        | M    |        |      |
| 57 | 国家安全教育 (航海)     |  |       |     |     |       |     |       |     |     |       |     |       | H   | H     | H   |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 58 | 金融学             |  |       |     |     |       |     |       | L   |     |       |     |       |     |       |     |     |       |     |       |     |     | M     |     |     | M      |      |        | M    |        |      |
| 59 | 国际商务            |  |       |     |     |       |     |       | L   |     |       |     |       |     |       |     |     |       |     |       |     |     | M     |     |     | M      |      |        | M    |        |      |

## 航海技术

| 序号 | 毕业要求指标点        |   | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|----------------|---|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    | 课程名称           |   | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 60 | 法理学            |   |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |
| 61 | 海洋法            |   |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |
| 62 | 实用写作           |   |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     |     |       |     | H   | H      |      |        |      |        |      |
| 63 | 海上行政执法         |   |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |
| 64 | 海域使用管理法        |   |       |     |     |       |     |       | L   |     |       |     |       |     |       | M   |     |       |     |       | M   |     |       | M   |     |        |      |        |      |        | M    |
| 65 | 智能航海导论         | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 66 | 物联网与船联网技术      | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 67 | 航运大数据技术与应用     | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 68 | 智能船案基支持系统与远程控制 | M | M     |     |     |       |     | H     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     |        |      | M      | H    |        |      |
| 69 | 船舶认识实习         |   |       | M   | L   |       |     |       |     |     |       |     |       | H   | L     | L   | L   | M     |     |       | M   | M   |       |     |     | H      | L    |        |      |        |      |
| 70 | 精通救生艇筏和救助艇     |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |
| 71 | 精通急救           |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |
| 72 | 熟悉与基本安全        |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |
| 73 | 高级消防           |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |
| 74 | 船舶保安           |   |       | M   |     |       |     |       |     |     |       |     |       | H   |       |     |     |       |     |       |     | M   | M     |     |     | H      |      |        |      |        |      |
| 75 | 货物积载与系固        |   |       | M   |     |       |     |       | M   |     |       |     |       |     |       |     |     |       |     |       |     | M   | M     |     |     | H      | H    |        |      |        |      |
| 76 | 航线设计           |   | M     | H   |     |       |     | M     | M   |     |       |     |       |     |       |     |     | M     | M   |       |     | M   | M     |     |     | H      | M    | H      |      |        |      |
| 77 | 驾驶台资源管理        |   |       | H   |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     |     | H   | H      | H    |        |      |        |      |
| 78 | GMDSS 设备操作     |   |       | H   |     |       |     | M     |     |     |       | L   | L     |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 79 | 雷达操作与应用        | M |       |     | H   |       |     | M     |     |     |       | M   |       |     |       |     |     |       |     |       |     |     |       |     |     | H      |      |        |      |        |      |
| 80 | 英语阅读           |   |       |     |     |       |     |       |     | M   | M     | L   | H     |     |       |     |     |       |     |       |     |     |       |     |     | H      | H    |        |      |        | M    |

大连海事大学本科专业培养计划

| 序号 | 毕业要求指标点<br>课程名称 | 指标点 1 |     |     | 指标点 2 |     | 指标点 3 |     |     | 指标点 4 |     | 指标点 5 |     | 指标点 6 |     |     | 指标点 7 |     | 指标点 8 |     |     | 指标点 9 |     |     | 指标点 10 |      | 指标点 11 |      | 指标点 12 |      |
|----|-----------------|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-------|-----|-----|-------|-----|-------|-----|-----|-------|-----|-----|--------|------|--------|------|--------|------|
|    |                 | 1-1   | 1-2 | 1-3 | 2-1   | 2-2 | 3-1   | 3-2 | 3-3 | 4-1   | 4-2 | 5-1   | 5-2 | 6-1   | 6-2 | 6-3 | 7-1   | 7-2 | 8-1   | 8-2 | 8-3 | 9-1   | 9-2 | 9-3 | 10-1   | 10-2 | 11-1   | 11-2 | 12-1   | 12-2 |
| 81 | 中国海员史           |       |     |     |       |     |       |     |     |       |     |       |     |       |     | M   |       |     | H     |     |     | L     |     |     |        |      |        |      | M      |      |
| 82 | 公益劳动            |       |     |     |       |     |       |     |     |       |     |       |     | H     |     |     | M     |     | M     | M   |     | M     | L   |     |        |      |        |      |        |      |
| 83 | 大学生健康教育         |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       |     |       |     | H   | H     | H   | H   | H      |      |        |      |        |      |
| 84 | 职业生涯规划          |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      | H      | H    |
| 85 | 就业指导            |       |     |     |       |     |       |     |     |       |     |       |     |       |     |     |       | H   | H     | H   |     |       |     |     |        |      |        |      |        |      |
| 86 | 毕业实习及毕业论文       |       |     |     |       |     | H     | H   | H   | H     | H   |       | H   |       |     |     | M     | M   |       |     |     |       |     |     |        |      | H      |      | H      | H    |

注：关联度强的用“H”表示，关联度中等的用“M”表示，关联度弱的用“L”表示。

Note: The degree of correlation should be marked as "H"(high), "M"(medium) and "L"(low).

## 八、教学计划进度表

参见表 1~表 6

Curriculum Structure

Refer to Table1~Table6.

表 1: 航海技术(校企合作班)课程设置及学分安排

Table1: Nautical Science[ School-enterprise cooperation Class] Curriculum and Credits

| 课程分类<br>Course<br>Categories | 理论课程 (151 学分)<br>In-class Teaching Courses (151 credits) |                               |  |  | 集中实践环节 (32 学分)<br>Centralized Practicum<br>(32 credits) |                               | 讲座 (5 学分)<br>Lectures and Seminars<br>(5 credits) |                               | 总计  |  |
|------------------------------|--|-------------------------------|--|--|---|-------------------------------|---|-------------------------------|-----|--|
|                              | 必修<br>Compulsory   | 限选<br>Restrictive<br>Optional | 任选<br>Free Optional                    |  | 必修<br>Compulsory  | 限选<br>Restrictive<br>Optional | 必修<br>Compulsory                                  | 限选<br>Restrictive<br>Optional |     |  |
| 学分<br>Credits                | 129  | 10                            | 12                                     |  | 32  | 0                             | 5   | 0                             | 188 |  |
| 占理论课学分百分比<br>Percentage      | 84.87  | 6.58                          | 7.89                                   |  |   |                               |   |                               |     |  |
| 实验上机环节学分                     | 独立实验上机学分   | 课内实<br>验上机<br>学分              | 限选必<br>选课<br>的独<br>立实<br>验上<br>机学<br>分 | 限选必<br>选课<br>的课<br>内实<br>验上<br>机学<br>分 |   |                               |   |                               |     |  |
|                              | 6  | 12.38                         | 0                                      | 0                                      |   |                               |   |                               |     |  |
| 实践环节占学分百分比                   |  |                               |  |  | 26.66   |                               |   |                               |     |  |

注: 实践环节学分占总学分百分比=【(课内实践+课内实验+课内上机)学时/16+(独立实验+独立上机)学时/24+集中实践性教学学分】/总学分\*100%

Note: Percentage of Practice = 【(In-class practice+ In-class Experiment + In-class Operation) Credits/16+(Independent Experiment+ Independent Operation) Credits/24+Centralizing Practical Teaching Credits】/Total Credits\*100%

表 2: 航海技术(校企合作班)必修课程设置及进程

Table2: Nautical Science[ School-enterprise cooperation Class] Curriculum of Compulsory Courses

| 课程性质<br>Course<br>Nature | 课程类别<br>Course<br>Categories | 类别备注<br>Course<br>Categor<br>ies<br>Remark | 序号<br>No. | 课程编号<br>Course<br>Code | 课程名称<br>Course<br>Name | 学分<br>Credits | 考核方<br>式<br>Testi<br>ng<br>metho<br>d | 是否学<br>位课<br>Degree<br>Course | 是否核<br>心课程<br>CORE<br>COURSE | 是否必<br>选<br>Required<br>Course | 学时<br>Teaching Hours |                    |                            |                 |                                 | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                        |     |     |
|--------------------------|------------------------------|--|-----------|------------------------|------------------------|---------------|---------------------------------------|-------------------------------|------------------------------|--------------------------------|----------------------|--------------------|----------------------------|-----------------|---------------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|------------------------|-----|-----|
|                          |                              |  |           |                        |                        |               |                                       |                               |                              |                                | 合计<br>Total          | 讲课<br>Lecture<br>s | 实验<br>Laborator<br>y Hours | 实践<br>Practicum | 上机<br>Computer<br>Operatio<br>n | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth<br>Term |     |     |
|                          |                              |  |           |                        |                        |               |                                       |                               |                              |                                |                      |                    |                            |                 |                                 | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                    | 4-1 | 4-2 |

大连海事大学本科专业培养计划

|                             |   |    |            |   |   |    |   |   |    |    |    |    |   |     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|-----------------------------|---|----|------------|---|---|----|---|---|----|----|----|----|---|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|--|--|
| 必修课程组<br>Compulsory Courses | 必修-公共基础及通识教育课<br>Public basic and general education courses | 1  | 1713000010 | 军事理论<br>Military Theory                                     | 2 | 考查 |   | √ | 32 | 32 | 0  | 0  | 0 | 1-1 |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 课外学时4 |  |  |  |  |  |  |
|                             |   | 2  | 1713000025 | 体育(1)(海上)<br>Physical Education                             | 1 | 考查 | √ |   | √  | 28 | 0  | 28 | 0 | 0   | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 3  | 1713000081 | 高等数学(B-1)<br>Advanced Mathematics                           | 4 | 考试 | √ |   | √  | 64 | 64 | 0  | 0 | 0   | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 4  | 1713000350 | 大学计算机基础<br>Introduction to College Computer Science         | 2 | 考试 | √ |   | √  | 32 | 10 | 0  | 0 | 22  | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 5  | 1713019280 | 中国近现代史纲要<br>Compendium of Chinese Neoteric & Modern History | 3 | 考查 | √ |   | √  | 48 | 40 | 0  | 8 | 0   | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 6  | 2113000221 | 大学英语(海上)<br>College English                                 | 3 | 考试 | √ |   | √  | 48 | 32 | 0  | 0 | 16  | 1-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 7  | 1713000026 | 体育(2)(海上)<br>Physical Education                             | 1 | 考查 | √ |   | √  | 40 | 0  | 32 | 8 | 0   |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 8  | 1713000082 | 高等数学(B-2)<br>Advanced Mathematics                           | 6 | 考试 | √ |   | √  | 96 | 96 | 0  | 0 | 0   |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 9  | 1713000191 | 大学物理实验(1)<br>Physics Experiment                             | 1 | 考查 |   |   | √  | 24 | 0  | 24 | 0 | 0   |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 10 | 1713000410 | 逻辑学<br>Logic  | 1 | 考查 |   |   | √  | 16 | 16 | 0  | 0 | 0   |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 11 | 1713025360 | 思想道德与法治   | 3 | 考试 | √ |   | √  | 48 | 40 | 0  | 8 | 0   |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 12 | 1713025581 | 大学物理(A-1)<br>University Physics                             | 3 | 考试 | √ |   | √  | 48 | 48 | 0  | 0 | 0   |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 13 | 2113000222 | 大学英语(海上)<br>College English                                 | 3 | 考试 | √ |   | √  | 48 | 32 | 0  | 0 | 16  |     | 1-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 14 | 1713000027 | 体育(3)(海上)<br>Physical Education                             | 1 | 考查 | √ |   | √  | 36 | 0  | 36 | 0 | 0   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 15 | 1713000050 | 马克思主义基本原理<br>Basic Tenets of Marxism                        | 3 | 考试 | √ |   | √  | 48 | 40 | 0  | 8 | 0   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 16 | 1713000120 | 线性代数(B)<br>Linear Algebra                                   | 2 | 考试 |   |   | √  | 32 | 32 | 0  | 0 | 0   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |
|                             |   | 17 | 1713000130 | 概率论与数理统计<br>Probability Theory & Mathematical Statistics    | 3 | 考试 |   |   | √  | 48 | 48 | 0  | 0 | 0   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |       |  |  |  |  |  |  |

## 航海技术

|   |  |            |   |  |    |    |   |    |    |    |    |   |   |  |  |     |     |     |  |  |  |  |  |     |  |
|---|--|------------|---|--|----|----|---|----|----|----|----|---|---|--|--|-----|-----|-----|--|--|--|--|--|-----|--|
|   |  | 18         | 1713000192  | 大学物理实验(2)<br>Physics<br>Experiment   | 1  | 考查 |   | √  | 24 | 0  | 24 | 0 | 0 |  |  | 2-1 |     |     |  |  |  |  |  |     |  |
|   |  | 19         | 1713022340  | 大学化学(海上)<br>College Chemistry  | 2  | 考试 |   | √  | 32 | 32 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |  |  |  |  |     |  |
|   |  | 20         | 1713025582  | 大学物理(A-2)<br>University<br>Physics   | 4  | 考试 |   | √  | 64 | 64 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |  |  |  |  |     |  |
|   |  | 21         | 2113000223  | 大学英语(海上)<br>College English  | 3  | 考试 | √ | √  | 48 | 48 | 0  | 0 | 0 |  |  | 2-1 |     |     |  |  |  |  |  |     |  |
|   |  | 22         | 1713000028  | 体育(4)(海上)<br>Physical<br>Education   | 1  | 考查 | √ | √  | 40 | 0  | 32 | 8 | 0 |  |  |     | 2-2 |     |  |  |  |  |  |     |  |
|   |  | 23         | 1713026100  | 毛泽东思想和中国<br>特色社会主义理论<br>体系概论<br>Introduction to<br>Mao Zedong<br>Thought and<br>Theoretical<br>System of<br>Socialism with<br>Chinese<br>Characteristics | 3  | 考试 | √ | √  | 48 | 48 | 0  | 0 | 0 |  |  |     | 2-2 |     |  |  |  |  |  |     |  |
|   |  | 24         | 2113000224  | 大学英语(海上)<br>College English  | 3  | 考试 |   | √  | 48 | 48 | 0  | 0 | 0 |  |  |     | 2-2 |     |  |  |  |  |  |     |  |
|   |  | 25         | 2113000580  | 实用写作<br>Factual writing;   | 1  | 考查 |   | √  | 16 | 16 | 0  | 0 | 0 |  |  |     |     | 2-3 |  |  |  |  |  |     |  |
|   |  | 26         | 1713022040  | 习近平新时代中国<br>特色社会主义思想<br>概论<br>An Introduction<br>to Xi Jinping<br>Thought on<br>Socialism with<br>Chinese<br>Characteristics<br>for a New Era            | 3  | 考试 |   | √  | 48 | 40 | 0  | 8 | 0 |  |  |     |     |     |  |  |  |  |  | 3-2 |  |
|   | 必修-专业<br>(类)基础课<br>Disciplinary<br>Courses | 1          | 1713010180  | 机械制图<br>Mechanical<br>Graphing   | 2  | 考查 |   | √  | 32 | 28 | 4  | 0 | 0 |  |  |     | 2-1 |     |  |  |  |  |  |     |  |
| 2 |  | 1713015880 | (船舶)无线电技术<br>基础<br>(Ship) Radio<br>Technology<br>Fundamentals | 3  | 考试 | √  | √ | 48 | 40 | 8  | 0  | 0 |   |  |  |     | 2-1 |     |  |  |  |  |  |     |  |
| 3 |  | 1713015890 | 电工学 I<br>Electrical<br>Engineering<br>Technology              | 2  | 考试 |    | √ | 32 | 28 | 4  | 0  | 0 |   |  |  |     |     | 2-1 |  |  |  |  |  |     |  |



航海技术

|  |  |  |          |            |  |     |    |   |   |   |    |      |      |     |     |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|----------|------------|--|-----|----|---|---|---|----|------|------|-----|-----|----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  | 9        | 1713016560 | 船舶操纵<br>Ship Handling                                | 3   | 考试 | √ | √ | √ | 48 | 48   | 0    | 0   | 0   |    |  |  |  |  |  |  |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 10       | 1713016580 | 航海仪器<br>Nautical Instruments                         | 4   | 考试 | √ | √ | √ | 64 | 46   | 0    | 18  | 0   |    |  |  |  |  |  |  |  | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 11       | 1713015960 | 船舶货运<br>Marine Cargo Operations                      | 4   | 考试 | √ | √ | √ | 64 | 64   | 0    | 0   | 0   |    |  |  |  |  |  |  |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 12       | 1713015970 | 航海英语会话与评估<br>Maritime English Listening and Speaking | 2   | 考查 |   | √ | √ | 32 | 16   | 0    | 16  | 0   |    |  |  |  |  |  |  |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 13       | 1713015990 | 航海英语阅读<br>Maritime English Reading Comprehension     | 4   | 考试 | √ | √ | √ | 64 | 64   | 0    | 0   | 0   |    |  |  |  |  |  |  |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 14       | 1713016010 | 船舶安全管理<br>Ship Safety Management                     | 3   | 考试 | √ | √ | √ | 48 | 48   | 0    | 0   | 0   |    |  |  |  |  |  |  |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 15       | 1713016570 | 船舶导航雷达<br>Shipborne Navigation Radar                 | 2   | 考试 | √ | √ | √ | 32 | 32   | 0    | 0   | 0   |    |  |  |  |  |  |  |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 16       | 1713016590 | 船舶避碰与值班<br>Ship Collision Avoidance and Watchkeeping | 3.5 | 考试 | √ | √ | √ | 56 | 56   | 0    | 0   | 0   |    |  |  |  |  |  |  |  | 3-2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 合计 Total |            |  | 129 |    |   |   |   |    | 2160 | 1770 | 218 | 118 | 54 |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |  |  |  |  |

表 3: 航海技术(校企合作班) 限选课程设置及进程  
Table3: Nautical Science[ School-enterprise cooperation Class] Curriculum of Restrictive Optional Courses

| 课程性质<br>Course Nature | 课程类别<br>Course Categories | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课程<br>Degree Course | 是否核心课程<br>CORE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |     |  |  |  |  |  |  |  |  |  |  |
|-----------------------|---------------------------|----------------------------------|-----------|---------------------|---------------------|---------------|------------------------|-------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|-----|--|--|--|--|--|--|--|--|--|--|
|                       |                           |                                  |           |                     |                     |               |                        |                         |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |     |  |  |  |  |  |  |  |  |  |  |
|                       |                           |                                  |           |                     |                     |               |                        |                         |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2 |  |  |  |  |  |  |  |  |  |  |
|                       |                           |                                  |           |                     |                     |               |                        |                         |                |                         |                      |                |                        |                 |                          |                    |     |     |                     |     |     |                    |     |             |                     |     |     |  |  |  |  |  |  |  |  |  |  |

大连海事大学本科专业培养计划

|  |   |  |   |  |   |    |    |  |  |  |    |    |    |    |    |     |     |     |     |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|--|---|--|---|----|----|--|--|--|----|----|----|----|----|-----|-----|-----|-----|-----|--|-----|--|--|--|--|--|--|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 限选课组<br>Restrictive<br>Optional<br>Courses | 限选-公共基础及通识教育课<br>Public basic and general education courses | 1  | 1713000370  | 计算机程序设计基础 (C)<br>Basics of Computer Programming (C)      | 3   | 考试 |    |  |  |  | 48 | 24 | 0  | 0  | 24 | 1-2 |     |     |     |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   | 2  | 1713025590  | Python 数据分析<br>Data Analysis with Python                 | 2   | 考查 |    |  |  |  |    | 32 | 16 | 16 | 0  | 0   | 1-2 |     |     |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   | 3  | 1713025600  | MATLAB 语言与可视化仿真<br>MATLAB Language and Visual Simulation | 2   | 考查 |    |  |  |  |    |    | 32 | 16 | 16 | 0   | 0   | 1-2 |     |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   | 4  | 1713016040  | 英语阅读<br>English Reading Comprehension                    | 2   | 考查 |    |  |  |  |    |    | 32 | 32 | 0  | 0   | 0   |     | 2-1 |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   | 5  | 1713000250  | 英语中级口语<br>Intermediate Oral English                      | 2   | 考查 |    |  |  |  |    |    | 32 | 32 | 0  | 0   | 0   |     |     |     |  |     |  |  |  |  |  |  | 3-1 |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 限选-专业(类)基础课<br>Disciplinary Courses                         | 1  | 1713018510  | 专业导论 (航海)<br>Introduction of Profession                  | 0.5   | 考查 |    |  |  |  |    |    | 8  | 8  | 0  | 0   | 0   | 1-1 |     |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   | 限选-专业及方向课程<br>(智能航运方向)<br>Stream Courses | 1   | 1713024660   | 智能航海导论<br>Intelligent Navigation Introduction                         | 1  | 考查 |  |  |  |    |    |    | 16 | 16 | 0   | 0   | 0   |     | 2-1 |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   |  | 2   | 1713024640   | 物联网与船联网技术<br>Technology on Internet of things and Internet of vessels | 1  | 考查 |  |  |  |    |    |    |    | 16 | 16  | 0   | 0   | 0   |     |  | 2-2 |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   |  | 3   | 1713024630   | 航运大数据技术与应用<br>Big data techniques and applications on shipping        | 1  | 考查 |  |  |  |    |    |    |    | 16 | 16  | 0   | 0   | 0   |     |  |     |  |  |  |  |  |  |     | 3-1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |   |  | 4   | 1713016090   | 船舶建模与控制<br>Math Models and Ship Controls                              | 1  | 考查 |  |  |  |    |    |    |    | 16 | 16  | 0   | 0   | 0   |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5   | 1713024620                               | 智能船岸基支持系统与远程控制<br>Shore support system and remote control of Intelligent Ship | 2  | 考试  |    |    |  |  |  |    |    | 32 | 32 | 0  | 0   | 0   |     |     |     |  |     |  |  |  |  |  |  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 航海技术

|   |   |            |   |     |    |  |  |  |    |    |   |    |   |     |  |  |     |  |  |     |     |  |     |  |  |
|---|---|------------|---|-----|----|--|--|--|----|----|---|----|---|-----|--|--|-----|--|--|-----|-----|--|-----|--|--|
| 限选-专业<br>及方向课程<br>(海上执法<br>模块)<br>Stream<br>Courses | 1 | 1713006410 | 法理学<br>Jurisprudence of<br>Law  | 3   | 考试 |  |  |  | 48 | 48 | 0 | 0  | 0 |     |  |  | 2-1 |  |  |     |     |  |     |  |  |
|   | 2 | 1713005440 | 海洋法<br>Law of the Sea   | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0  | 0 |     |  |  | 2-2 |  |  |     |     |  |     |  |  |
|   | 3 | 1713018080 | 海域使用管理法<br>Law of the<br>Administration of<br>the Use of Sea<br>Areas | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0  | 0 |     |  |  |     |  |  | 3-1 |     |  |     |  |  |
|   | 4 | 1713018070 | 海上行政执法<br>Maritime<br>Administrative<br>Law Enforcement               | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0  | 0 |     |  |  |     |  |  |     | 3-2 |  |     |  |  |
| 限选-专业<br>及方向课程<br>(航运管理<br>模块)<br>Stream<br>Courses | 1 | 1713007480 | 宏观经济学<br>Macroeconomics   | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0  | 0 |     |  |  | 2-2 |  |  |     |     |  |     |  |  |
|   | 2 | 1713007610 | 金融学<br>Finance  | 3   | 考试 |  |  |  | 48 | 48 | 0 | 0  | 0 |     |  |  |     |  |  | 3-1 |     |  |     |  |  |
|   | 3 | 1713018090 | 国际商务<br>International<br>Commerce                                     | 2   | 考试 |  |  |  | 32 | 32 | 0 | 0  | 0 |     |  |  |     |  |  |     | 3-2 |  |     |  |  |
| 限选-专业<br>及方向课程<br>Stream<br>Courses                 | 1 | 1713016060 | 船员心理学<br>Psychology for<br>Seafarers                                  | 1.5 | 考查 |  |  |  | 24 | 24 | 0 | 0  | 0 | 1-1 |  |  |     |  |  |     |     |  |     |  |  |
|   | 2 | 1713022430 | 中国海员史<br>the History of<br>Chinese Seafarers                          | 2   | 考查 |  |  |  | 32 | 32 | 0 | 0  | 0 | 1-1 |  |  |     |  |  |     |     |  |     |  |  |
|   | 3 | 1713016100 | 特种货物运输<br>Special Cargoes<br>Operations                               | 2   | 考查 |  |  |  | 32 | 32 | 0 | 0  | 0 |     |  |  |     |  |  |     |     |  | 4-1 |  |  |
|   | 4 | 1713016110 | LNG 船货物运输<br>Cargo Operations<br>of LNG Carriers                      | 2   | 考查 |  |  |  | 32 | 16 | 0 | 16 | 0 |     |  |  |     |  |  |     |     |  | 4-1 |  |  |
|   | 5 | 1713016120 | 航海涉外礼仪<br>Maritime<br>International<br>Etiquette                      | 1   | 考查 |  |  |  | 16 | 16 | 0 | 0  | 0 |     |  |  | 2-2 |  |  |     |     |  |     |  |  |
|   | 6 | 1713016070 | 海洋船舶气象定线<br>Weather Routing<br>of Ship                                | 1   | 考查 |  |  |  | 16 | 12 | 4 | 0  | 0 |     |  |  |     |  |  |     | 3-1 |  |     |  |  |

大连海事大学本科专业培养计划

|          |  |  |    |            |   |    |    |  |  |  |     |     |    |    |    |   |   |  |  |  |  |     |  |     |     |  |  |  |  |  |
|----------|--|--|----|------------|---|----|----|--|--|--|-----|-----|----|----|----|---|---|--|--|--|--|-----|--|-----|-----|--|--|--|--|--|
|          |  |  | 7  | 1713016130 | 国际海事发展动态<br>Development of<br>International<br>Maritime Issues    | 1  | 考查 |  |  |  | 16  | 16  | 0  | 0  | 0  |   |   |  |  |  |  | 3-1 |  |     |     |  |  |  |  |  |
|          |  |  | 8  | 1713022080 | GMDSS 通信英语<br>GMDSS Service                                       | 2  | 考试 |  |  |  |     | 32  | 28 | 4  | 0  | 0 |   |  |  |  |  |     |  | 3-1 |     |  |  |  |  |  |
|          |  |  | 9  | 1713016050 | 海事调查与案例分析<br>Investigation and<br>Analysis of<br>Marine Accidents | 1  | 考查 |  |  |  |     |     | 16 | 16 | 0  | 0 | 0 |  |  |  |  |     |  |     | 3-2 |  |  |  |  |  |
|          |  |  | 10 | 1713016140 | 海事管理概论<br>Introduction to<br>Maritime<br>Administration           | 1  | 考查 |  |  |  |     |     | 16 | 16 | 0  | 0 | 0 |  |  |  |  |     |  |     | 3-2 |  |  |  |  |  |
| 合计 Total |  |  |    |            |   | 48 |    |  |  |  | 768 | 688 | 40 | 16 | 24 |   |   |  |  |  |  |     |  |     |     |  |  |  |  |  |

表 4: 航海技术(校企合作班)任选课程设置及进程

Table4: Nautical Science[ School-enterprise cooperation Class] Free Electives System

1. 全校性选修课程分为人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程及其他课程。其中, 1) 必修课不设“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程, 创新与创业课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。2) 必修课设置“创新思维与创新方法”的专业需要从人文与艺术课程、国家与社会课程、科学与技术课程分别选修至少 2 学分, 同时需要完成各专业规定的任选课学分。具体课程见每年度选课系统中的全校选修课程一览。

The elective courses are divided into “humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses” and “other courses”. Among them, 1) The majors without “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, “innovation and entrepreneurship courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. 2) The majors with “innovative thinking and innovative methods courses” in the training plan need to take at least 2 credits from “Humanities and art courses”, “national and social courses”, “science and technology courses”, At the same time, it is necessary to complete the credits of elective courses specified by each major. For specific courses, please refer to the list of elective courses in the course selection system of each year.

2. 学生参加学校、院系组织的第二课堂活动, 并符合学校有关学籍管理规定, 可获得相应任选课学分, 具体参考学生手册中的学籍管理规定部分。

If students participate in the second classroom activities organized by the school and departments, and meet the school’s relevant regulations on student status management, they can obtain corresponding optional course credits. For details, please refer to the regulations on student status management in the student handbook.

表 5: 航海技术(校企合作班) 实践环节课程设置及进程

Table5: Nautical Science[ School-enterprise cooperation Class] Practical Training System

| 课程性质<br>Course Nature  | 课程类别<br>Course Categories | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name       | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE | 是否必修<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |     |  |         |
|------------------------|---------------------------|----------------------------------|-----------|---------------------|---------------------------|---------------|------------------------|------------------------|----------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|-----|--|---------|
|                        |                           |                                  |           |                     |                           |               |                        |                        |                |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |     |  |         |
|                        |                           |                                  |           |                     |                           |               |                        |                        |                |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2 |  |         |
| 必修课<br>组<br>Compulsory | 必修-实践环节<br>Practicum      |                                  | 1         | 1713000450          | 公益劳动<br>Labor Week        | 0             | 考查                     |                        |                | √                       | 0                    | 0              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     |     |  | 课外学时 32 |
|                        |                           |                                  | 2         | 1713000440          | 军事训练<br>Military Training | 3             | 考查                     |                        |                | √                       | 90                   | 0              | 0                      | 90              | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     |     |     |  |         |

## 航海技术

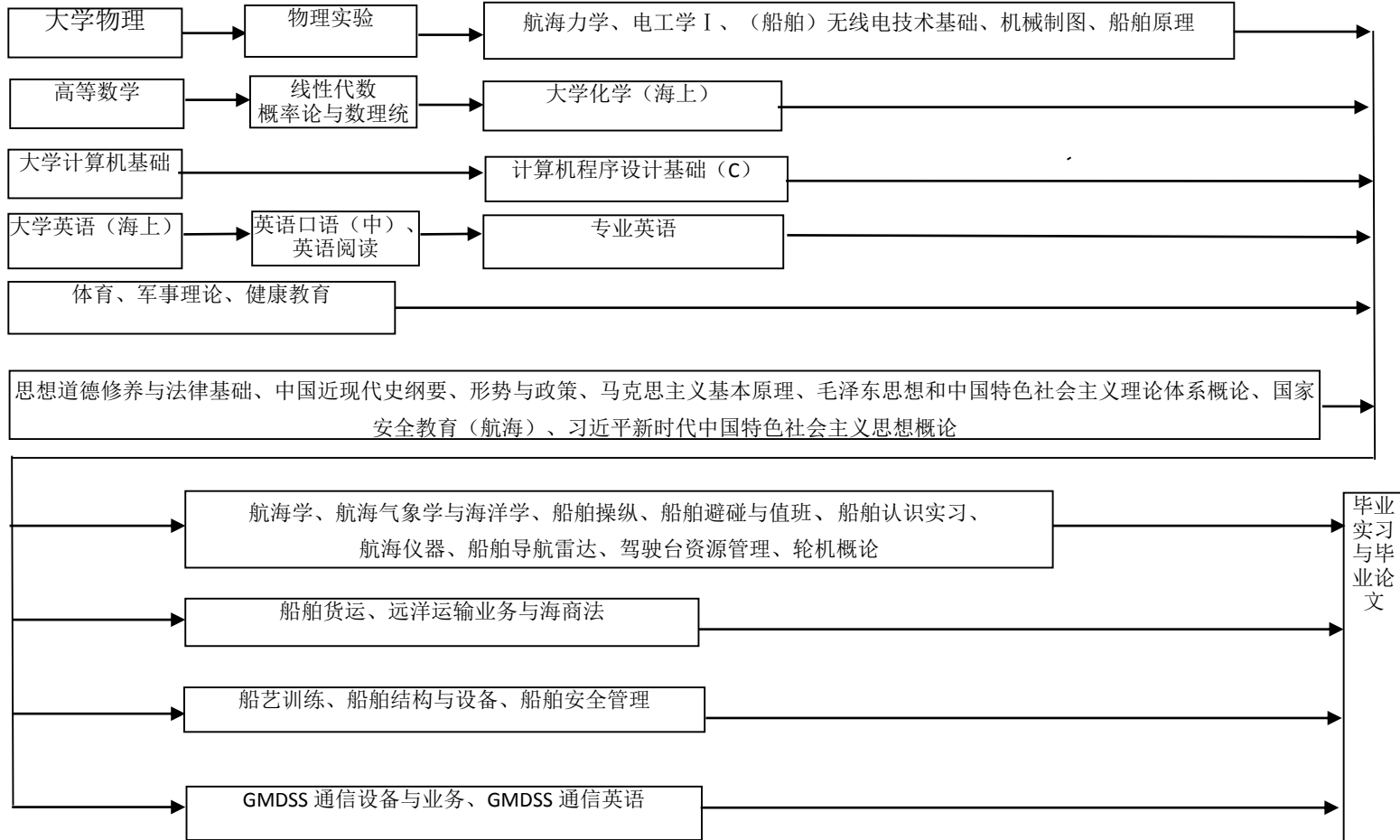
|         |          |            |  |     |    |   |   |     |      |    |     |     |   |  |  |  |  |  |  |     |     |  |  |
|---------|----------|------------|--|-----|----|---|---|-----|------|----|-----|-----|---|--|--|--|--|--|--|-----|-----|--|--|
| Courses | 3        | 1713016170 | 航线设计<br>Ship Course Design                           | 1   | 考查 |   | √ | 30  | 0    | 0  | 30  | 0   |   |  |  |  |  |  |  | 4-1 |     |  |  |
|         | 4        | 2113000460 | 毕业实习及毕业论文<br>Graduation Practice, Design& Thesis     | 12  | 考查 |   | √ | 360 | 0    | 0  | 360 | 0   |   |  |  |  |  |  |  |     | 4-2 |  |  |
|         | 5        | 1713004710 | 精通救生艇筏和救助艇<br>Proficiency in Life boat & Rescue boat | 1   | 考查 |   | √ | 28  | 0    | 0  | 28  | 0   |   |  |  |  |  |  |  | 2-2 |     |  |  |
|         | 6        | 1713004720 | 精通急救<br>Proficiency in First Aid                     | 1   | 考查 |   | √ | 30  | 0    | 0  | 30  | 0   |   |  |  |  |  |  |  | 2-2 |     |  |  |
|         | 7        | 1713017530 | 高级消防<br>Advanced Fire Fighting                       | 1   | 考查 |   | √ | 36  | 0    | 0  | 36  | 0   |   |  |  |  |  |  |  | 2-2 |     |  |  |
|         | 8        | 1713025610 | 船艺训练<br>Seamanship Training                          | 1   | 考查 |   | √ | 30  | 0    | 0  | 30  | 0   |   |  |  |  |  |  |  | 2-2 |     |  |  |
|         | 9        | 1713026090 | 基本安全<br>Basic Safety                                 | 2.5 | 考查 |   | √ | 86  | 54   | 0  | 32  | 0   |   |  |  |  |  |  |  | 2-2 |     |  |  |
|         | 10       | 1713016190 | 船舶保安<br>Ship Security                                | 0.5 | 考查 |   | √ | 20  | 0    | 0  | 20  | 0   |   |  |  |  |  |  |  | 2-3 |     | 4-9班, 第8周;<br>10-15班, 第15周;<br>学院排课::: |  |
|         | 11       | 1713016150 | 船舶认识实习<br>Ship Observation Practice                  | 4   | 考查 |   | √ | 120 | 0    | 0  | 120 | 0   |   |  |  |  |  |  |  | 3-1 |     |  |  |
|         | 12       | 1713016160 | 货物积载与系固<br>Cargo Stowage and Securing                | 1   | 考查 |   | √ | 40  | 0    | 0  | 40  | 0   |   |  |  |  |  |  |  |     | 3-2 |  |  |
|         | 13       | 1713016200 | GMDSS 设备操作<br>GMDSS Equipment Operation              | 2   | 考查 |   | √ | 60  | 0    | 0  | 60  | 0   |   |  |  |  |  |  |  |     | 3-2 |  |  |
|         | 14       | 1713016180 | 驾驶室资源管理<br>Bridge Resources Management               | 1   | 考查 | √ | √ | 40  | 20   | 20 | 0   | 0   |   |  |  |  |  |  |  |     |     | 3-3                                    |  |
|         | 15       | 1713016210 | 雷达操作与应用<br>Radar Operation                           | 1   | 考查 |   | √ | 40  | 0    | 0  | 40  | 0   |   |  |  |  |  |  |  |     |     | 3-3                                    |  |
|         | 合计 Total |            |  |     | 32 |   |   |     | 1010 | 74 | 20  | 916 | 0 |  |  |  |  |  |  |     |     |  |  |

表 6: 航海技术(校企合作班) 讲座设置及进程

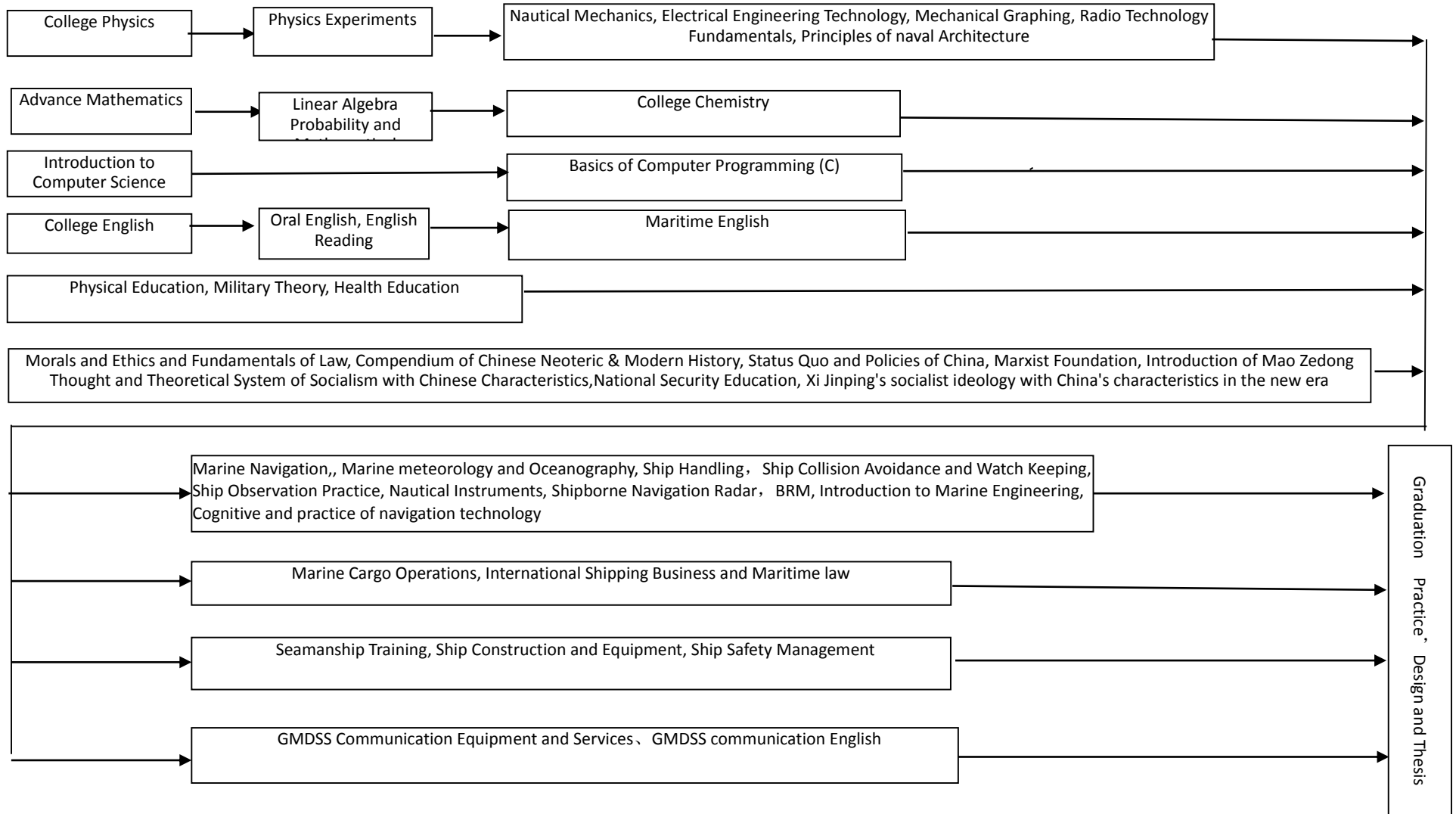
Table6: Nautical Science[ School-enterprise cooperation Class] General Lectures System

| 课程性质<br>Course Nature       | 课程类别<br>Course Categories     | 类别备注<br>Course Categories Remark | 序号<br>No. | 课程编号<br>Course Code | 课程名称<br>Course Name                               | 学分<br>Credits | 考核方式<br>Testing method | 是否学位课<br>Degree Course | 是否核心课程<br>CORE COURSE | 是否必选<br>Required Course | 学时<br>Teaching Hours |                |                        |                 |                          | 上课学期<br>Semesters  |     |     |                     |     |     |                    |     | 备注<br>Notes |                     |     |                                 |        |
|-----------------------------|-------------------------------|----------------------------------|-----------|---------------------|---|---------------|------------------------|------------------------|-----------------------|-------------------------|----------------------|----------------|------------------------|-----------------|--------------------------|--------------------|-----|-----|---------------------|-----|-----|--------------------|-----|-------------|---------------------|-----|---------------------------------|--------|
|                             |                               |                                  |           |                     |   |               |                        |                        |                       |                         | 合计<br>Total          | 讲课<br>Lectures | 实验<br>Laboratory Hours | 实践<br>Practicum | 上机<br>Computer Operation | 第一学年<br>First Term |     |     | 第二学年<br>Second Term |     |     | 第三学年<br>Third Term |     |             | 第四学年<br>Fourth Term |     |                                 |        |
|                             |                               |                                  |           |                     |   |               |                        |                        |                       |                         |                      |                |                        |                 |                          | 1-1                | 1-2 | 1-3 | 2-1                 | 2-2 | 2-3 | 3-1                | 3-2 |             | 3-3                 | 4-1 | 4-2                             |        |
| 必修课程组<br>Compulsory Courses | 必修-讲座<br>Lectures and Seminar |                                  | 1         | 1713000480          | 入学教育<br>Admission Orientations                    | 0             | 考查                     |                        |                       | √                       | 16                   | 16             | 0                      | 0               | 0                        | 1-1                |     |     |                     |     |     |                    |     |             |                     |     |                                 |        |
|                             |                               |                                  | 2         | 1713025340          | 形势与政策   | 2             | 考查                     |                        |                       | √                       | 64                   | 64             | 0                      | 0               | 0                        | 1-1                | 1-2 |     | 2-1                 | 2-2 |     | 3-1                | 3-2 |             | 4-1                 | 4-2 | 4个学年的第1、2学期分别设8学时, 2学分设置在第4-1学期 |        |
|                             |                               |                                  | 3         | 1713000520          | 职业生涯规划<br>Career Planning for University Students | 0.5           | 考查                     |                        |                       | √                       | 8                    | 8              | 0                      | 0               | 0                        |                    | 1-2 |     |                     |     |     |                    |     |             |                     |     |                                 |        |
|                             |                               |                                  | 4         | 2113000510          | 大学生健康教育<br>Health education of college students   | 1             | 考查                     |                        |                       | √                       | 16                   | 16             | 0                      | 0               | 0                        |                    | 1-2 |     |                     |     |     |                    |     |             |                     |     |                                 | 课外学时16 |
|                             |                               |                                  | 5         | 2113000300          | 国家安全教育(航海)<br>National Security Education         | 1             | 考查                     |                        |                       | √                       | 16                   | 16             | 0                      | 0               | 0                        |                    |     | 1-3 |                     |     |     |                    |     |             |                     |     |                                 |        |
|                             |                               |                                  | 6         | 1713000530          | 就业指导<br>Career Guidance for University Students   | 0.5           | 考查                     |                        |                       | √                       | 8                    | 8              | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    | 3-1 |             |                     |     |                                 |        |
| 合计 Total                    |                               |                                  |           |                     |   | 5             |                        |                        |                       |                         | 128                  | 128            | 0                      | 0               | 0                        |                    |     |     |                     |     |     |                    |     |             |                     |     |                                 |        |

### 航海技术（校企合作班）专业选课指导图



### Course Selection Flowchart



## 后 记

培养计划是高等学校人才培养的纲领性文件，是教育思想和办学理念的集中体现，是实现人才培养目标的具体实施方案。根据学校质量体系文件《培养计划的制定与修订》（DMU-2-040）的要求，本年度培养计划在 2021 年修订版基础上做了微调。在多次校对、反复审核的过程当中，得到了各教学单位领导、教务、以及老师的大力支持和帮助。在此，对在培养计划修订过程中给予支持和帮助各位，表示衷心的感谢。

培养计划的制定是一项繁琐的系统工作，难免会有疏漏，不足之处还望批评指正。培养计划的修订是以专业发展和知识更新为需求导向的，在执行过程中会进行细微调整。在此过程中，若产生分歧，应以教务系统为准。

对现行培养计划如有疑问请联系：

院 办：84729637 84723367

教学院长：84725296

教 务 处：84723005

航海技术专业负责人：刘军坡

航海技术教学指导委员会

大连海事大学教务处

2022 年 9 月