

课程大纲 COURSE SYLLABUS

1.	课程代码/名称 Course Code/Title	OCE5011/海洋沉积环境 Marine Sedimentology
2.	课程性质 Compulsory / Elective	专业基础课程
3.	课程学分/学时 Course Credit/Hours	3/48
4.	授课语言 Teaching Language	中/英双语 Chinese and English
5.	授课教师 Instructor(s)	徐景平 教授 Professor Jingping Xu
6.	是否面向本科生开放 Open to undergraduates or not	否
7.	先修要求 Pre-requisites	无
8.	教学目标 Course Objectives	<p>本课程较全面、系统地介绍海洋沉积学的基本理论、研究方法和应用实例，重点讲解海洋沉积学的主要研究进展，尤其是陆架边缘海、深海沉积学的研究进展，包括新的观测手段、研究方法和理论。通过本课程学习，要求学生较全面掌握海洋沉积学的基本理论与研究方法，了解学科发展的国际前沿动态，为相关学科课程学习和开展科学研究打好基础。</p> <p>This course covers the fundamentals of marine sedimentology: theories, lab and field techniques, as well as applications. Emphasis will be given to continental shelf and deep-sea sedimentary environments. Students are required to understand those theories and techniques, be aware of new developments and frontier studies in the international communities.</p>
9.	教学方法 Teaching Methods	<p>课堂讲授，课程讨论，及至少一次实践课程</p> <p>Lectures, in-class discussions, and at least one field trip</p>

10.	教学内容 Course Contents
Section 1	海洋沉积学绪论、海洋学基础、沉积学基础 (6 学时) Introduction, Oceanography Basics, Sedimentology Basics: 6 credit hours
Section 2	海洋沉积作用 (1、2、3 部分) (6 学时) Marine Sedimentation (3 parts): 6 credit hours
Section 3	沉积结构 (1、2 部分) (4 学时) Sedimentary Textures (2 parts): 4 credit hours
Section 4	沉积构造 (2 学时) Sedimentary Structures: 2 credit hours
Section 5	河口海岸沉积学 (1、2 部分) (4 学时) Estuarine and Coastal Sedimentology (2 parts): 4 credit hours
Section 6	浅海沉积 (1、2、3 部分) (6 学时) Shelf Sedimentation (3 parts): 6 credit hours
Section 7	深海沉积 (1、2、3、4 部分) (8 学时) Deep Sea Sedimentation (4 parts): 8 credit hours
Section 8	热液与冷泉沉积 (1、2 部分) (4 学时) Hot Spring and Cold Seep (2 parts): 4 credit hours
Section 9	野外/海上实习 (8 学时) Field Trip: 8 credit hours
Section 10	
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11.	课程考核 Course Assessment
	(① 考核形式 Form of examination; ②. 分数构成 grading policy; ③ 如面向本科生开放, 请注明区分内容。 If the course is open to undergraduates, please indicate the difference.) 平时作业 (40%) + 期中考试 (20%) + 期末考试 (40%) Homework (40%) + Mid-term (20%) + Final (40%)
12.	教材及其它参考资料 Textbook and Supplementary Readings
	1. 王琦、朱而勤, 海洋沉积学, 科学出版社, 1989 2. Nittrouer, C.A., et al., Continental Margin Sedimentation, Oxford: Blackwell Publishing, 2007. 3. Stow, D.A.V., et al., Deep-Water Contourite Systems: Modern Drifts and Ancient Series, Seismic and Sedimentary Characteristics. London: The Geological Society Publishing, 2002.