State of Florida Instructional Materials Adoption Publisher Questionnaire (Form IM8)

BID #: 776
SUBMISSION TITLE: Oceanography: An Invitation to Marine Science
GRADE LEVEL: 09-12
COURSE TITLE: Marine Science 1
COURSE CODE #: 2002500
ISBN #: 9798214066844 Print SE / 9798214093017 Ebook SE
PUBLISHER: Cengage Learning, Inc.
AUTHOR: Garrison/Ellis

AUTHORS & CREDENTIALS: LIST FULL NAME OF AUTHOR(S), WITH MAJOR OR SENIOR AUTHOR LISTED FIRST. BRIEFLY PROVIDE CREDENTIALS FOR EACH AUTHOR.

Tom S. Garrison
Tom Garrison (Ph.D., University of Southern California) was an inspiring professor of marine science for over 47 years at Orange Coast College in Costa Mesa, California -- one of the largest undergraduate marine science departments in the United States. Dr. Garrison also held an adjunct professorship at the University of Southern California and won multiple teaching and education awards during his career. A founding member of the Consortium for Ocean Science Exploration and Engagement, he wrote a regular column for the journal OCEANOGRAPHY and enjoyed writing for NATIONAL GEOGRAPHIC magazine. Dr. Garrison was an Emmy Award team participant as writer and science adviser for the PBS syndicated "Oceanus" television series as well as a writer and science adviser for "The Endless Voyage" -- a set of TV programs on oceanography. His widely used textbooks in oceanography and marine science are college market bestsellers, and 42 years of teaching allowed him to pass his oceanic enthusiasm to more than 65,000 students.

Robert Ellis
Robert Ellis (M.E.S.M., University of California, Santa Barbara) has been teaching marine, earth and environmental science courses in both the classroom and the field since 2000. He serves as associate professor in the marine science department at Orange Coast College in Southern California and director of the OCC Public Aquarium. When not on campus, Professor Ellis often helps to develop and teach international field courses in marine science and management in various parts of the Caribbean, Central America and the South Pacific. His graduate work focused on marine resource management at UC Santa Barbara, and he has participated in and managed research projects and educational programs in many parts of the world. He and wife Katie have two wonderful kids, Kalen and Abigail.

STUDENTS: DESCRIBE THE TYPE(S) OF STUDENTS FOR WHICH THIS SUBMISSION IS INTENDED.

Oceanography: An Invitation to Marine Science is intended for high school students studying Anatomy and Physiology.

1.LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED INTHE LAST EIGHTEEN MONTHS.

Oceanography: An Invitation to Marine Science 10e has not been piloted in Florida districts in the last 18 months.

2.HOW ARE YOUR DIGITAL MATERIALS SEARCHABLE BY FLORIDA'S ACADEMIC STANDARDS (SECTION 1006.33(1)(e), FLORIDA STATUTES)?

The eBook for Oceanography: An Invitation to Marine Science has the Florida academic standards listed in the front of the book with associated page numbers next to the standard. The page numbers have active links to direct the student or teacher directly to the content in the eBook. The Search feature in the eBook can also be used for key word searches associated with standards. MindTap, National Geographic Learning/Cengage's online platform for teaching and learning with readings, assessments and interactive has a Search feature to find content using language from the standard.

3.IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Toolis comprised of the items necessary to meet the standards and requirements of the category for whichit is designed and submitted. As part of this section, include a description of the educational approachof the submission.

Educational Approach: (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)

Co-developed with the National Geographic Society, Garrison/Ellis' market-leading OCEANOGRAPHY: AN INVITATION TO MARINE SCIENCE, 10th EDITION, equips students with an understanding of the scientific questions, complexities and uncertainties of ocean use and the important role of the ocean in nurturing and sustaining life on Earth. The 10th Edition features work by Tom Garrison and co-author Robert Ellis, an assistant professor in the Marine Science Department at Orange Coast College who has managed research and educational programs worldwide. With an emphasis on science processes, more "How Do We Know?" boxes detail how oceanographers know what they know. Climate change coverage is updated to reflect the latest findings. Chapter 14 is renamed "Primary Producers" and includes coverage of photosynthetic and chemosynthetic producers so the marine biology "big picture" is better understood.

Major Tool - Student Components Describe each of the components, including a format description.

The **Student Edition** is the Student Component Major Tool, available in print and digital format.

National Geographic Oceanography: An Invitation to Marine Science Florida Edition is available as an eEdition on **MindTap**, National Geographic Learning/Cengage's platform for teaching and learning.

Oceanography: An Invitation to Marine Science, 10th K12 MindTap

Our online learning platforms are designed to achieve better results. By increasing student engagement, improving teacher productivity and using assessment to enable differentiation, we support growth. With Oceanography: An Invitation To Marine Science, 10th Edition, K12 MindTap our online solution goes further with content from the most trusted sources that not only aligns to your standards and certifications but creates a sense of belonging and inclusion.

Major Tool - Teacher Components Describe each of the components, including a format description.

The Teacher Components are all found online in the **Teacher Companion** site. The Teacher Companion Site will include the following tools and resources for the teacher:

- The MindTap Educator's Guide - A useful teacher companion to learn about all the features and use the online learning platform
- Instructor's Manual - Overview and guide to help teaching and all answers and suggested answers to exercises in the program
- Chapter Quizzes and Test Bank - Assignable chapter assessments, both formative and summative

- Cognero Test Generator - A rich assessment resource for formative and summative assessments that is fully customizable and printable
- PowerPoints - Useful presentation decks to help with class instruction
- Correlations to national standards

4. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

Ancillary Materials - Student Components Describe each of the components, including a format description.

Available for the student are the **print Student Edition** and the **digital Student Edition**. Also available is the *Oceanography: An Invitation to Marine Science Student Companion* in print and digital format, and MindTap.

Oceanography: An Invitation to Marine Science, 10th K12 MindTap

Our online learning platforms are designed to achieve better results. By increasing student engagement, improving teacher productivity and using assessment to enable differentiation, we support growth. With Oceanography: An Invitation To Marine Science, 10th Edition, K12 MindTap our online solution goes further with content from the most trusted sources that not only aligns to your standards and certifications but creates a sense of belonging and inclusion.

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

The Teacher Components are all found online in the **Teacher Companion** site. The Teacher Companion Site will include the following tools and resources for the teacher:

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- PowerPoints - Useful presentation decks to help with class instruction
- Correlations to national standards

5. IDENTIFY WHICH INDUSTRY STANDARD PROTOCOLS ARE UTILIZED FOR INTEROPERABILITY?

MindTap, National Geographic Learning/Cengage's online portal for teaching and learning, has been certified by IMS Global at the v1.3 LTI Advantage interoperability level.

6. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

This program is aligned to either a half-year or a full-year course. Lessons, activities, and review questions are designed to be flexible and to provide the teacher with the opportunity to extend or shorten the time spent on lessons as needed.

7. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

Please refer to the Florida Customer Care package attached.

Please refer to a separate detailed document called the Florida Customer Care Package which describes all the product implementation training that is available based on the purchased products and quantities. The training ranges from multiple day, in-person training with several scheduled follow up trainings over multiple years to individual 1 on 1 online/remote training sessions. There are also many online on-demand training modules available to keep teachers successful any time of the day or week to ensure successful implementation and use of our products in the classroom.

8. WHAT HARDWARE/EQUIPMENT IS REQUIRED? List and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid; however, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

MindTap features (reading the eBook, studying flashcards) are available on a mobile smartphone.

MindTap System Requirements

Operating Systems

- Windows - Windows 7, 8, 8.1, 10

- Macintosh - OS X 10.10 -10.11

- Chrome - Chrome OS

- Mobile - iOS 6+, Android (see below note for browsers)

Browsers

- Windows - Firefox (latest and next-to-latest version, Chrome (latest and next-to-latest version), Internet Explorer 11 (For Win 7 and 8.1 only), Microsoft Edge 13-14

- Macintosh - Firefox (latest and next-to-latest version, Chrome (latest and next-to-latest version), Safari 9.x+

- Mobile - Safari 9+ (may provide limited functionality). Firefox and Chrome are valid browsers for Android use, however usage is too low to warrant functionality testing. Thus, Android devices are not officially supported at this time.

Plug-Ins and Browser Settings

- First and third party cookies must be enabled within the browser.

- Popups must be enabled within the browser.

- Adobe Flash - While you can use MindTap without the Flash plugin, if possible, install the latest version of the

Flash Player on your system.

- Java is no longer required for MindTap, however there may be some older legacy content that still requires this plugin.

- Please Note: Beginning with version 45, Chrome no longer supports NPAPI plugins like Java or Silverlight. Users needing to run Java-based content in MindTap will be required to use an alternate browser.

- JavaScript must be enabled within the browser, which most browsers have installed and enabled by default.

- Adobe Reader is needed to print MindTap assignments and other content.

Hardware Requirements

- Minimum screen resolution of 1024 x 768.

- Intel® or AMD® CPU at 1.8GHz or better

- 1 GB of RAM

Bandwidth Requirements

- Minimum - 1Mbps Download

- Recommended - 5Mbps Download

- Users can test their connection speed by visiting the following link: http://www.speedtest.net/index.php

9. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

Attached are two National Geographic Learning/Cengage policies: the MindTap licensing policy and the privacy policy.

Cenage-Group-School-Terms_of-Use-January-2022.pdf

cengage-privacy-notice-october-2020-1508150.pdf

10. WHAT STATES HAVE ADOPTED THE SUBMISSION? List any states in which this submission is currently adopted.

National Geographic Oceanography: An Invitation to Marine Science Edition is new for the Florida Science adoption and not been adopted in other states.

11. WHAT OPEN EDUCATIONAL RESOURCES RELATED TO THIS BID DO YOU MAKE AVAILABLE(S)? List and describe each of the components, including a format description. (Open Educational Resources (OER) are high-quality, openly licensed, online educational materials that offer an extraordinary opportunity for people everywhere to share, use and reuse knowledge.)

Open Educational Resources (OER) are not included in the National Geographic Learning/Cengage bid.

12.ALTHOUGH NOT CALLED FOR IN THE STATE ADOPTION, DO YOU HAVEADVANCED PLACEMENT (AP) OR ACCELERATED PROGRAM INSTRUCTIONALMATERIALS AVAILABLE FOR THE COURSE(S) BID FOR ADOPTION?

Open Educational Resources (OER) are not included in the National Geographic Learning/Cengage bid.

13.WHAT, IF ANY, FOREIGN LANGUAGE TRANSLATIONS DO YOU HAVEAVAILABLE?

National Geographic Oceanography: An Invitation to Marine Science Edition is available in English only.

14.DO YOU PROVIDE ACCESS POINT SCAFFOLDING OR AN ACCESS POINTCORRELATION UPON REQUEST?

Yes, National Geographic Learning may provide this upon request.

15. ESSA LEVELS OF EVIDENCE: To be considered an evidence-based program (or practice), it is required to have evidence to show that the program is in fact effective at producing results and improving outcomes in reading when implemented. Identification of evidence level alignment, Levels 1-4 (as outlined in the specifications), for the entirety of the program, part of the program, or individual practices within the program is required. Please explain how your product meets these requirements.

National Geographic Learning/Cengage is committed to providing results-driven solutions to improve student outcomes. The Science editorial department believes in providing rigorous, challenging, engaging content that is accessible by every student.

The National Geographic Learning Science programs are developed with the expertise of highly regarded authors, subject matter experts, program consultants, editorial staff, and teacher reviewers who ensure the implementation of the most recent research studies and pedagogy to promote student achievement. It is the goal of National Geographic Learning to ensure we reach every Florida student in every National Geographic Learning classroom.

In addition to strategies incorporated in the student edition, MindTap, National Geographic Learning's online platform for teaching and learning, is rich in formative and summative assessment to measure reading and content comprehension and employs multiple modes of assessment. After each lesson, formative assessment measure comprehension of the content of the lesson as well as the building of literacy skills. Formative assessment is a mix of multiple choice and constructed responses. The entire chapter is reviewed.

National Geographic Learning is committed to providing results-driven solutions to improve student outcomes. National Geographic Learning focuses on the effective use of technology, strong student support, experienced and talented authors and consultants, frequent assessment, and student engagement through print and digital resources. With this foundation, National Geographic Learning supports the goals and outcomes of ESSA.