Online/Hybrid Course Delivery Proposal

Committee On Online Learning (COOL), Chabot College

PLEASE READ. This document was created by submitting the Online/Hybrid Course Proposal form. Responses submitted are in blue font. Any changes made here are saved automatically. When done making changes, simply close the browser tab and/or browser. A COOL Review Team will post feedback by way of the "Comments" tool in the upper-right hand corner. You can return to this document at any time using the proposal link sent to your email inbox (Learn more: Google Docs Getting Started Guide).

Faculty, Course, & Delivery Format Information	
Faculty Name: Wayne Phillips Current Faculty Status for Online Teaching/Proposal Approval at Chabot College (Fast Track or New): Fast Track Date of Initial Proposal Submission: <<Date>>	Course: INDT 63, Intro to Micro, Nano, and Semiconductor Fabrication Units: 3 Contact Hours: 87.5 Delivery Method: Hybrid (partially taught online and partially taught in-person) (If Hybrid: 40% online) First Semester To Be Offered: Fall 2017

Need/Justification/Benefits to Students
What learning opportunities might be made possible by offering THIS particular course in online or hybrid delivery format?   Hybrid format allows greater scheduling flexibility for students. Online content delivery allows students to study and review at their own pace.

Develop Proposal and Consult with Colleagues
Comments, feedback & recommendations provided by colleagues (NOTE: Do not leave this section blank. If the faculty you consulted did not provide any feedback or recommendations, please note that below):   Support, no recommendations   (**REQUIRED**) Name(s) of faculty with whom you consulted: Mon Khat, Dave Casini

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<table>
<tr><td colspan="3">Course Content Delivery - Contact Hour or "In-Class" Activities

Contact hours are those segments of instructional time where the student is actively engaged in learning activities and would reflect the same type of instruction implemented in a traditional face-to-face classroom. For example, a 3-unit course typically meets on campus for 54 contact hours of instruction, assessment, discussion and group activities. Explain how the instructional contact hours will be implemented for each week of instruction. Please list and describe each activity as well as the contact hours for each activity (you may not use all fields). More explanation regarding contact hours can be found at http://www.chabotcollege.edu/cool/contacthours/ and examples of proposals submitted by faculty can be viewed at http://www.chabotcollege.edu/cool/proposals/default.asp.</td></tr>
<tr><td>Delivery Mode</td><td>Activity and Description</td><td>Contact Hours</td></tr>
<tr><td>online</td><td>Recorded lecture (Camtasia or similar) and YouTube videos.</td><td>1 hour per week</td></tr>
<tr><td>online</td><td>Interactive online activities (drills and simulations)</td><td>0.6 hour per week</td></tr>
<tr><td>online</td><td>Online quiz</td><td>0.2 hour per week</td></tr>
<tr><td>online</td><td></td><td></td></tr>
<tr><td>online</td><td></td><td></td></tr>
<tr><td>online lab</td><td>Recorded demonstration of lab activity (Camtasia or similar)</td><td>0.2 hour per week</td></tr>
<tr><td>in-person</td><td>Q & A / discussion of lecture topics</td><td>0.2 hour per week</td></tr>
<tr><td>in-person</td><td></td><td></td></tr>
<tr><td>In-person lab</td><td>Hands-on lab activities</td><td>2.8 hours per week</td></tr>
<tr><td colspan="2">TOTAL CONTACT HOURS:
(Total Contact Hours According to the Course Outline: 87.5)</td><td>87.5 (35 lecture, 52.5 lab)</td></tr>
</table>

<table>
<tr><td>Course Content Delivery - Preparatory or "Outside of Class" (Homework) Activities
(Note: These are NOT part of Contact Hours)</td></tr>
<tr><td>Reading textbook, answering review questions, student-student discussions</td></tr>
</table>

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Nature and Frequency of Student-Instructor Interactions
Describe the nature & frequency of how you will interact with the entire class and individual students, especially in terms of providing feedback on assignments, interventions when students are at risk of dropping or failing. Weekly announcements to entire class on Canvas and through email, emails and in-person 1-on-1 contact with at-risk students as needed, student-initiated contact via email or in person.

Nature and Frequency of Student-Student Interactions
Describe opportunities in your course for student-to-student interaction, such as discussions, group projects, peer review, and how you will build a collaborative, student-centered environment. Students will complete weekly group lab activities, and use Canvas online discussion boards for comments and questions in between the in-class meetings.

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Assessment of Student Learning & Academic Integrity
List and describe the methods of assessments you will use to assess learning in this course. Weekly quizzes, study guide homework assignments, lab activities, and final exam.
Describe the strategies you plan to use to promote academic integrity in your course. Instructor will monitor student performance during in-class lab activities. Homework assignments and discussion board postings will be in students' own words, final exam will be proctored in-class.

Technology and Accessibility
Indicate the technology tools (software, web-based tools, etc.) you plan to use in your course (Examples provided include: Learning Management System (Blackboard), Presentations (examples: PowerPoint, Camtasia, etc.), Audio/Video (Examples: YouTube, 3CMedia, etc.), Web Conferencing (Example: CCCConfer), and Publisher Content (examples: Pearson, Cengage, etc.) Learning Management System (example: Blackboard, Canvas, etc.), Presentations (examples: PowerPoint, Camtasia, etc.), Audio/Video (examples: YouTube, 3CMedia, etc.) For the technology tools you have listed above, please describe your plan for utilization in your course. As noted in previous sections **Accessibility/Accommodations for Students with Disabilities**: All materials must be accessible to students with disabilities. During the development of your course, please make sure that videos are closed-captioning or a transcript is provided, audio is accompanied with a transcript, images include alternative/alt tags, detailed visuals include text descriptions, and tables are formatted to include row and column headers. For information and support for ensuring accessibility for your students (including captioning), please contact the Chabot Disabled Students Resource Center (DSRC). I acknowledge and have read the above regarding accessibility/accommodations for students with disabilities.

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<table>
<tr><td colspan="2" align="center">Record of Approval, Comments, & Feedback
A record of approval, & comments, & feedback will be automatically recorded directly below</td></tr>
</table>

Timestamp	3/3/2017 10:57:10 AM
Name	Kristin Lima
Division	Applied Technology & Business
Proposal reviewed	INDT 63 by Wayne Phillips
Approval Selection	I approve this proposal as presented.

Timestamp	4/11/2017 3:08:43 PM
Reviewer Role	COOL Review Team Member
Proposal Reviewed	INDT 63 by Wayne Phillips

Timestamp	4/14/2017 5:01:02 PM
Reviewer Role	COOL Review Team Member
Proposal Reviewed	INDT 63 by Wayne Phillips

Timestamp	4/15/2017 7:35:01 PM
Reviewer Role	COOL Review Team Member
Proposal Reviewed	INDT 63 by Wayne Phillips

Timestamp	4/26/2017 5:37:50 PM
Reviewer Role	COOL Chair
Proposal Reviewed	INDT 63 by Wayne Phillips