Biomedical Informatics Master’s BMI 590-Capstone:Internship Plan

The Capstone:Internship Option

Six (6) credit hours of BMI 581 Capstone OR BMI 590-Capstone:Internship are required of MS Non-Thesis students in the Health and Clinical Informatics program.

Six (6) credit hours of BMI 590-Capstone:Internship are required of MS Non-Thesis students in the Bioinformatics and Computational Biomedicine program (non-postdocs only).

Students may begin the BMI 590-Capstone:Internship once they have completed 30 credit hours of coursework.

This document outlines the format of the BMI 590 Capstone:Internship. The format consists of:

1. Two terms of an approved internship (3 credits per term which translates to 9-12 hours per week of work or approximately 100 hours per quarter),
2. A written summary of the internship (10-15 pages in length)

Structure & Process

In partnership with the OHSU Department of Medical Informatics, external Sponsoring Organizations will provide structured Capstone:Internship experiences for medical informatics students to work on current projects. This program will provide benefits to the Sponsoring Organization, the students, and their state’s workforce in a variety of ways. The Capstone:Internship will bring together theory, application, and current practice.

Securing a Capstone:Internship

Interest Form: Interested students will complete a Student OHSU Master’s Capstone:Internship Interest Form (below) and include a CV/resume to participate in the Capstone:Internship. This form must be turned into the OHSU Internship Coordinator, Diane Doctor (doctord@ohsu.edu) by the end of the 2nd week of the quarter before the student wants to begin the Capstone:Internship. For example, if a student wanted to begin the Capstone:Internship spring quarter, they would fill out the Interest Form at the beginning of winter quarter. It is important to begin this process early as obtaining all of the necessary documentation can take several weeks.

Finding a Project: Master’s students are responsible for finding their own Capstone:Internship opportunities. The OHSU Internship Coordinator will maintain a database with descriptions of current project opportunities that are available at some of the Sponsoring Organizations. The student will either come up with his/her own project idea and Sponsoring Organization or use the project database to match his/her interests with an appropriate project. The OHSU Internship Coordinator and the Sponsoring Organization will facilitate possible matches and development opportunities. After coming up with his/her own idea or browsing the project descriptions available in the OHSU internship database, the student should discuss potential projects and opportunities with the OHSU Internship Coordinator. The project idea must be approved by the student’s OHSU Faculty Advisor by the end of the 3rd week of the quarter before the student begins the Capstone:Internship.

Project Development: The quarter before the Capstone:Internship begins the student will work with the Sponsoring Organization to develop a detailed Project Plan that includes the:

1. Project Scope
2. Milestones
3. Deliverables
4. Timeline
5. Name and contact information of the mentor at the Sponsoring Organization
6. OHSU Faculty Advisor

The Project Plan will also include the frequency of meetings with the Sponsoring Organization and any additional requirements the Sponsoring Organization or OHSU Faculty Advisor has for the student (see Course Contract below for a more detailed listing of all required components).

The proposed Project Plan must be completed by the OHSU student and turned in to the Internship Coordinator no later than midway through the quarter prior to when the work will begin. For example, the Project Plan for a spring Capstone:Internship must be turned in no later than the fifth week of winter term.

**Logistics:** The Sponsoring Organization will work with the student to ensure all necessary Sponsor-required paperwork and/or screenings are completed prior to the start of the Capstone:Internship. The OHSU Internship Coordinator will work with OHSU and the Sponsoring Organization to establish the necessary Education Contract. If the internship will include patient care, the Internship Coordinator will work with the student and OHSU to develop an Off Campus Authorization (OCA).

**Final Approval:** The Project Plan and all necessary paperwork must be approved and the Course Contract signed by the Faculty Advisor, Sponsor site, and the OHSU Internship Coordinator at least four weeks prior to the beginning of the quarter during which the Capstone:Internship is to take place.

**During the Capstone:Internship:**

- Each student will be closely linked with a Sponsoring Organization staff member who will serve as his/her mentor for the duration of the Capstone:Internship. The student may also be introduced to one or more content area experts or mentors for a given project or set of tasks. The student will meet regularly with Sponsoring Organization staff, including the mentor, at the frequency determined in the Project Plan, to review progress and assign work. The Sponsoring Organization mentor will complete a Summative Student Evaluation prior to the end of the Capstone:Internship.
- The student will complete 3 Student Capstone:Internship Progress Report Evaluations each quarter using Survey Monkey.
- The Sponsor will complete 3 Student Capstone:Internship Progress Report Evaluations each quarter using Survey Monkey.
- The Internship Coordinator will schedule student and OHSU advisor appointments as needed.
- The Internship Coordinator will review Capstone:Internship progress report evaluations from student and sponsor and forward evaluations to the student’s Faculty Advisor.
- The Master’s student will maintain and submit a log of hours worked and tasks completed. In addition, s/he will submit a 10-15 page double spaced summary of his/her Capstone:Internship experience to the Faculty Advisor and to the Internship Coordinator no later than one week prior to the end of the quarter.
## Capstone: Internship Role Summary

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<tr>
<th>Roles</th>
<th>Quarter Before Capstone: Internship Begins</th>
<th>During the Capstone: Internship</th>
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<td><strong>Timing</strong></td>
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<tr>
<td><strong>Student</strong></td>
<td>Wk 2</td>
<td>Submit Capstone: Internship Interest Form with CV/resume</td>
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<td></td>
<td>Wk 3</td>
<td>Project idea approved</td>
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<td>Mid-qtr</td>
<td>Submit proposed Project Plan</td>
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<td>4 wks prior to qtr end</td>
<td>Submit signed Training Affiliation Agreement</td>
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<tr>
<td><strong>Sponsor</strong></td>
<td>Mid-qtr</td>
<td>Identify mentor</td>
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<td>Mid-qtr</td>
<td>Develop Project Plan with student</td>
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<td></td>
<td>2 wks prior to qtr end</td>
<td>Complete Sponsor-related paperwork</td>
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<td>4 wks prior to qtr end</td>
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<td><strong>Faculty</strong></td>
<td>Wk 3</td>
<td>Approve project idea</td>
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<td>Approve Project Plan</td>
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<td></td>
<td>4 wks prior to qtr end</td>
<td>Sign Training Affiliation Agreement</td>
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<td>On-going</td>
<td>Maintain database of project opportunities</td>
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<td></td>
<td>Wk 2</td>
<td>Receive Capstone: Internship Interest Form with CV/resume</td>
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<td></td>
<td>Mid-qtr</td>
<td>Receive proposed Project Plan, Monitor progress of Training Affiliation Agreement signatures</td>
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<tr>
<td></td>
<td>2 wks prior to qtr end</td>
<td>Receive and sign Training Affiliation Agreement – Receive final Project Plan Complete Sponsor related paperwork</td>
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</tbody>
</table>
Roles

Master’s Students

Students will fill out a Master’s Capstone:Internship Interest Form and include a CV/resume to participate in the Capstone:Internship. This must be turned in to the OHSU Internship Coordinator by the end of the 2nd week of the quarter before the student wants to begin their Capstone:Internship. The student will investigate project options by reaching out to organizations with which they may be interested in working, or by contacting the Internship Coordinator for a list of current available projects. The student should discuss their potential project ideas and opportunities with the Internship Coordinator. The project idea must be approved by the Faculty Advisor by the end of the 3rd week of the quarter before the student begins the Capstone:Internship.

The quarter before the Capstone:Internship begins the student will work with the Sponsoring Organization to develop a detailed Project Plan. The student must submit a proposed Project Plan and turn it in to the Internship Coordinator no later than midway through the quarter prior to when the work will begin. The final Project Plan and all necessary paperwork (Interest Form, Course Contract, and Education Contract) must be approved at least two weeks prior to the beginning of the quarter in which the Capstone:Internship begins. The student will work with the Sponsoring Organization to ensure all necessary paperwork and/or screenings required by the Sponsoring Organization are completed. The student will also work with the OHSU Internship Coordinator to ensure that all paperwork, including an Education Contract and an OCA (if required), is completed.

During the Capstone:Internship, the student will communicate with the Internship Coordinator and their Faculty Advisor on an as needed basis. The student will complete an Internship Evaluation each month. The student will meet regularly with Sponsoring Organization staff at the frequency determined in the Project Plan.

The Master’s student will maintain a list of hours worked and tasks completed, and they will submit a 10-15 page double-spaced type summary of the Capstone:Internship experience to the Faculty Advisor and to the Internship Coordinator no later than one week prior to the end of the quarter.

The student will demonstrate professionalism through punctuality, enthusiasm, and appropriate dress, as well as by maintaining confidentiality.

Sponsoring Organization

The Sponsoring Organization will identify mentor(s) for the student(s). Each student must be assigned a mentor at the Sponsoring Organization by mid-term of the quarter prior to when the Capstone:Internship will begin. The mentor will work with the student to develop the proposed Project Plan by mid-term of the quarter prior to the Capstone:Internship and sign the Training Affiliation Agreement two weeks prior to the end of the previous quarter. The mentor will help guide the student’s efforts, submit monthly evaluations about the student’s progress, meet with the student as outlined in the Project Plan, and work to ensure that the experience is valuable for both the student and for the Sponsoring Organization’s mission. The Sponsoring Organization will complete a final evaluation prior to the student leaving at the end of the Capstone:Internship.

A staff member from the Sponsoring Organization will serve as the program’s primary Sponsoring Official, ensuring that the Capstone:Internship program remains a priority and that appropriate resources are dedicated to support the student and the Sponsoring Organization staff involved with the program. This staff member may be the student’s primary mentor, or someone else designated by the Sponsoring Organization.
The Sponsoring Organization will work with the Internship Coordinator and the student to ensure OHSU’s Training Affiliation Agreement and all necessary Sponsor-required paperwork/screenings are completed at least two weeks prior to the end of quarter preceding the Capstone:Internship.

The Sponsoring Organization will submit descriptions of possible projects to the Internship Coordinator to facilitate student matches based on interest, experience, and education requirements.

**OHSU Faculty Advisor**

The Faculty Advisor will oversee the program to ensure the educational relevance and quality of the Capstone:Internship content, approve the project idea by the 3rd week, approve the student’s Project Plan at least two weeks prior to the start of the Capstone:Internship, monitor the student’s progress, and communicate with the student on an as-needed basis. The Faculty Advisor will consult with the Sponsoring Organization and the Internship Coordinator on suitable projects for students, facilitate the development of new opportunities, grade the student Capstone:Internship final paper, determine class grade, and ensure overall adherence to program requirements. They will serve as the academic advisor and instructor of record for students in the Capstone:Internship and will address any issues that may arise with student progress during the Capstone:Internship.

**OHSU Internship Coordinator**

The Internship Coordinator will work with the Sponsoring Organization to facilitate student applications and placement, review monthly Capstone:Internship progress report evaluations from student and sponsor, and keep the Faculty Advisor updated on the students’ progress. The Internship Coordinator will maintain a database with descriptions of current project opportunities at the Sponsoring Organizations. This person will communicate with the Sponsoring Organization and the Faculty Advisor about student needs, progress, and project opportunities for additional students. The Internship Coordinator will schedule advisor appointments with the student as needed and work with OHSU and the Sponsoring Organization to establish the necessary Training Affiliation Agreement. In the event that patient care is a part of the Capstone:Internship, the Internship Coordinator will work with the student and with OHSU to develop an Off-Campus Authorization (OCA).

**Additional required resources that may be necessary from Sponsoring Organizations:**

**Physical Workspace**

Depending on the project, the Sponsoring Organization may provide the student with a computer workstation, office supplies, or appropriate administrative support to facilitate the student’s work.