***To be completed by Registrar:***

**Student Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Student ID**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Name & Number**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Semester academic credit will be received**:

FA SP SU **Year**: \_\_\_\_\_\_\_\_ **Subterm**: \_\_\_\_

**Course Created: \_\_\_\_**

**Student notified of registration: \_\_\_\_**

**Staff: \_\_\_\_**

****

**CISC Project II Application**

Students are **required to submit** a completed application to the Office of Experiential Programs on or before the deadline indicated on the academic calendar for the semester in which they are registered for the course. Students will not receive academic credit for the project if a completed contract is not submitted by the deadline. A copy of this form will be sent to the student, project advisor and project site supervisor (if applicable). *Please type.*

***To be completed by Student:***

**Term/Semester: Spring Subterm:       Year: 2025**

**Course Number: 498 Declared Major: Computer and Information Sciences**

**Faculty Project Advisor: Philip Grim Faculty Advisor: Brian Grey**

**Expected Start Date: 1/06/2025 Expected End Date: 4/24/2025**

**Number of Hours Student Expected to Work:** **135 Hours Per Week:****Approx. 10**

**Project is:** **Paid** **Voluntary/Unpaid**

***STUDENT CONTACT INFORMATION:***

**Student Name: Justin Joseph ID Number: 294859**

**Student Address: 2266 Golden Eagle Dr.**

**City: York State: PA Zip: 17408**

**Home Phone:** **N/A Cell Phone: 7179925142**

**Email (HU): jjoseph4@my.harrisburgu.edu Email (personal):** **N/A**

**Number of Academic Credits Earned: 80**

***ORGANIZATION CONTACT INFORMATION: (include if working with community partner)***

**Organization Name:**

**Organization Address:****City:****State:** **Zip:**

**Project Supervisor:****Supervisor Title:**

**Supervisor Phone:** **Supervisor Email:**

**Student Position:**

**Project II Contract**

*To be completed by the student after consultation with the Faculty Project Advisor and Site Supervisor. Please type.*

***NOTE:*** *At this stage, it is acceptable if you have simply a vague idea or an area that you wish to work in. You do not need to have a fully formed project idea at this point although you are welcome to propose such an idea if you have one. However, you should have enough of an idea that you can give your project an appropriate title and at least 100 words of proposal. For reference, this note itself is 100 words long, so any proposal that is less than 100 words is not formed enough to be actionable or workable.*

**Project Title:** Your project should address the investigation, design, and analysis of a computing-based solution to a real-world problem. Your project title is a concise, short, meaningful, and clear statement of your proposed work. You may revise, edit, and improve your title and project details as we progress with the course (course assignments help you revise and improve your idea).

|  |
| --- |
| Music Streaming Service Integrated Application |

**Project Proposal:** In this project, thorough investigation on a computational (Computer & Information Science related) topic including computer hardware, software, cyber security, networking, algorithmic design, data structures and databases, cloud computing, quantum computing, data analytics, or related fields will be conducted. Scientific [research] method will be followed to develop an artifact to answer the research question on the selected topic.

Following the discussions above, please provide a brief description of your proposal. You may revise, edit, and improve your title and project details as we progress with the course (course assignments help you revise and improve your idea). You are required to submit a 100 word minimum project proposal. A project proposal is a detailed description of the proposed project. It should provide the reader with a concise, organized description of the project and expected findings. *Please refer to student guide for assistance with completing your project proposal.*

|  |
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| For this software project, I am aiming to create an application that is able to integrate the features of users on different streaming services into one central interface. These features will range from listening statistics for songs, streaming history, and even playlists that can include songs limited to specific services. While it is still unclear as to what extent it will be possible, but the main goal for this application is to create an application environment in which users can access key features of different streaming services conveniently in one centralized hub without needing to visit any external sites directly (including the streaming service websites themselves). |

**Learning Agenda: Learning Objectives, Activities, and Evaluation:**

*Your Learning Agenda is your strategic plan for what you intend to learn during Project II. The Learning Agenda forms a written agreement between you, and your Faculty Project Advisor. A written plan helps you direct, manage, and reflect upon your learning process. Your learning agenda includes,* **Learning Objectives, Activities, and Evaluation.** *Students are required to have a minimum of three learning objectives and corresponding program goals.* ***You will have access to Canvas outlining the assignments and plan outlined here in your learning agenda.***

Learning Objective: **Be able to analyze a novel problem to create a conceptual design to that problem**

Program Goal: **PEO 1: Apply theoretical constructs of mathematical analysis, and sound reasoning to develop and deploy practical solutions for real world problems.**

Learning Outcome(s): **CISC 1: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.**

Potential PI’s: 1.1, 1.2, 1.3

Resources/Activities:

1. **Independent design and research activities**

2. **Consultation with my project advisor**

3. **Brainstorming sessions with peers in project class**

Evaluation/Verification:

1. **Midterm Progress Update**

2. **Final Implementation**

3. **Final Paper**

4. **Final Presentation**

Learning Objective: **Be able to design and implement a computing-based solution to a novel problem**

Program Goal: **PEO 2: Evaluate computing system requirements sufficient for developing efficient computational solutions for real world problems.**

Learning Outcome(s): **CISC 2: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.**

Potential PI’s: 2.1, 2.2, 2.3

Resources/Activities:

1. **Independent design and research activities**

2. **Consultation with my project advisor**

3. **Brainstorming sessions with peers in project class**

Evaluation/Verification:

1. **Midterm Progress Update**

2. **Final Implementation**

3. **Final Paper**

4. **Final Presentation**

**Learning Objectives, Activities, and Evaluation Continued:**

Learning Objective: **Be able to communicate in a formal way to a diverse audience.**

Program Goal: **PG 4: Master the elements of effective written and oral communication of results to technical and non-technical audience.**

Learning Outcome(s): **CISC 3: Communicate effectively in a variety of professional contexts.**

Potential PI’s: 3.1-3.10

Resources/Activities:

1. **Weekly Journaling**

2. **Writing a Structured Paper**

3. **Creating a Formal Presentation**

Evaluation/Verification:

1. **Weekly Journals**

2. **Midterm Progress Update**

3. **Final Paper**

4. **Final Presentation**

Learning Objective: **Understand how to create a software design and solution that conforms to society’s expectations of ethics, harm reduction, and informed consent**

Program Goal: **PEO 6: Live up to the ethical standards of the profession and professional knowledge and skills to contribute to society; and**

**PEO 7: Develop an understanding of the code of ethics of the software industry (social contract); and, therefore a sense of what it means to be a good citizen.**

Learning Outcome(s): **CISC 4: Recognize professional responsibilities and make informed judgements in computing practices based on legal and ethical principles.**

Potential PI’s: 4.1, 4.2, 4.3

Resources/Activities:

1. **Analysis of the design of the proposed solution**

2. **Consultation with my project advisor**

3. **Creation of an appropriate application to the IRB (if necessary)**

Evaluation/Verification:

1. **Weekly Journals**

2. **Final Paper**

3. **Final Presentation**

**Application of Harrisburg University Competencies and rationale:**

***NOTE: Below we have pre-selected and pre-populated 5 core competencies that should apply regardless of the project you are undertaking. If you feel that one of the remaining core competencies applies or that one of the pre-selected core competencies doesn’t apply, please work with your advisor to populate this section appropriately.***

**Critical Thinking - Analysis of a problem, designing a potential computational solution, and implementing that solution is a process of considering all possible solutions and iteratively refining the solution space until a viable and defendable solution is reached. This is essential to any project in CISC.**

**Communication - Upon completion of the project design/implementation, I need to be able to document my process and any potential conclusions in an organized and formalized way. This will be done both with a formal paper and a presentation with the goal of communicating my process and findings to a diverse audience.**

**Teamwork & Collaboration -**

**Entrepreneurship - Projects of all scale and scope are endeveavors into the unknown. While I may be able to get advice from experts, I will need to rely on my analysis to determine the proper course of action when a problem is encountered and my own work to solve those problems.**

**Information Literacy – I will need to research and understand different standard approaches and best practices to problems I encounter. In order to make the best informed judgment, I need to have a basis for understanding both the quality of the information I receive and the veracity of the source I receive it from.**

**Ethical Decision Making – All decisions can be analyzed within an ethical framework. While my problem may or may not have any ethically problematic aspects, I will examine my problem and potential solutions within an ethical framework to ensure that my design and solutions are ethically justifiable and do minimal potential harm.**

**Global Awareness -**

**Civic Engagement -**

**Project Progress Plan:**

**Deliverable Due Dates & Other Grading Criteria:**

**ADVISORS: Additional documents, due dates, and percentages are up to you and your advisee but the included deliverables below are required. Feel free to add additional deliverables and adjust weights accordingly.**

**Document Title: Due Date: Percent of Grade:**

**1. Weekly Journals Weekly 10%**

**2. Elevator Pitch Week 2 2%**

**3. Personal Project Plan Week 3 5%**

**4. In-Class Update 1 Week 6 4%**

**5. Midterm Progress Update Week 8 or 9 10%**

**6. Draft Submission Week 11 5%**

**7. In-Class Update 2 Week 12 4%**

**8. Academic Poster (48” × 36”) Week 12 10%**

**9. Final Implementation Week 14 10%**

**10. Final Paper Week 14 20%**

**11. Final Presentation Week 14 20%**

**Deliverable Descriptions:**

The deliverables of this course are:

1. **Weekly Journals:** These are reflection journals which are expected to be at least 250 words and reflect on what you have worked on over the past week, what problems you experience, what problems you overcame, and what you plan to do over the next week. These serve as a reflection for you on what you’ve done as well as an update for your advisor.
2. **Elevator Pitch:** An informal, three minute “presentation” where you introduce yourself to the class and explain what you’re working on for the semester. No visual aids are needed, just stand and talk.
3. **Personal Project Plan:** A granular plan for your semester, including any benchmarks or milestones for project specific deliverables that you may have. This plan should present a reasonable path for you to get from Week 2 to a completed proposal at the end of the semester.
4. **In-Class Update 1:** An informal, five minute “presentation” where you explain your progress so far. No visual aids are needed and it is okay if you just stand and talk. However, you can use this as an opportunity to try out the beginning of your presentation for the upcoming Midterm Progress Update.
5. **Midterm Progress Update:** A more formal, eight minute presentation on your current progress and expected results. The first five or six minutes should introduce your topic, give some background, and explain your approach. The last two or three minutes should explain your project’s current state, it’s projected final state, and your expected results at this time.
6. **Draft Submission:** A draft of your final deliverables. This can be your paper, your presentation, your poster, or some combination of the three and it should reflect progress since the midterm update. This is an opportunity to get more formal feedback on your progress towards your final deliverables.
7. **In-Class Update 2:** An informal, five minute “presentation” where you explain your progress since the midterm and where you expect to be on your final deliverables. Special focus should be paid to analyzing the difference between your originally proposed project and what you expect to deliver.
8. **Academic Poster (48” × 36”):** A small, academic poster presenting your work for the semester as well as any projected future work you may undertake on this topic on your own or in Project II. While you will not be required to enter the Research Symposium held in Harrisburg at the end of the academic year, by completing this poster, you will be able to register for the Symposium with no additional work as all necessary deliverables will be completed at this point.
9. **Final Implementation:** Your completed implementation for your project. The nature of this implementation will be project dependent. While this implementation may not always be the project itself (especially in the case of projects which are conducting experiments), this implementation forms the basis for your paper, presentation and poster.
10. **Final Paper:** A formal, final paper detailing your project for the semester. The form and nature of the paper is highly dependent on the nature of your project. However, you should assume that the size and scope of the paper should be equivalent to 10 pages of written content (excluding title page, reference pages, and diagrams) in an APA 7-formatted paper.
11. **Final Presentation:** A formal, final presentation detailing your project for the semester. The form and nature of the paper is highly dependent on the nature of your project. However, regardless of the form of the presentation, you will be expected to present for 10 to 12 minutes and should expect to answer two or three minutes of questions after your presentation is complete.

**Semester Schedule:**

**Project class schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Week #** | **Topic** | **Week #** | **Topic** |
| **1** | **Course Overview & Finalizing Contracts** | **8** | **Meetings with Advisors** |
| **2** | **Project Elevator Pitches** | **9** | **Midterm Progress Updates** |
| **3** | **Group Work on Project Plans**  **Technical Writing** | **10** | **Midterm Progress Updates** |
| **4** | **Research Writing**  **IRB** | **11** | **Meetings with Advisors** |
| **5** | **Meetings with Advisors** | **12** | **In-Class Update 2** |
| **6** | **In-Class Update 1** | **13** | **Final Presentations** |
| **7** | **Formal Presentations**  **Posters** | **14** | **Final Presentations** |

**Project Meetings:**

**List of Scheduled Meeting Dates and Times with Project Advisor outside of Project Class:**

**1. 8 Jan 2025, 2:30pm**

**2. Week 5 in Project Class**

**3. Week 8 in Project Class**

**4. Week 11 in Project Class**

**5. 9 Apr 2025, 2:30pm**

**PLEASE NOTE:** Attendance is expected at Project Class as well as at scheduled advisor meetings. Failure to attend project class will result in 0’s being entered for any work done in class that day. Additionally, absences from more than 1/3 of held classes will result in failure for the semester.

It is expected that you will set up meetings per your advisor’s request and be on-time for those meetings. Meetings can be rescheduled if pre-arranged and approved by your advisor. Any missed meetings without pre-arrangement will affect your grade. **Multiple missed meetings without pre-arrangement will result in failure of the class**. **It is the STUDENT’S responsibility to ensure that a schedule for regular meetings listed above is adhered to.**

*Signing this form affirms that the learning objectives, program goals, activities, and hours listed above are acceptable to the student, project advisor and meeting the student’s educational goals.*

*Justin Joseph\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12/27/2024\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

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Description automatically generated with medium confidence****Student Signature*** ***Date***

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_27 Dec 2024\_\_\_\_\_\_\_\_\_\_\_\_\_*

***Faculty Project Supervisor*** ***Date***

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

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Description automatically generated with medium confidence****External Resource (if applicable)******Date***

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_2025/01/05\_\_\_\_\_\_\_\_\_\_\_\_*

***CISC Experiential Learning Faculty Coordinator*** ***Date***