



All Learning Contracts must be typed using this online form.



Madison College Honors Project Learning Contract

Student Name	Holliann Niesen	Student Madison College I.D.	2798063
Student E-mail Address	hniesen@maidsoncollege.edu	Credits (2-3) (1 credit = 51 hrs)	3
Supervising Honors Faculty	Paula Waite	Faculty Discipline Area	Information Technology
Supervising Dean	Bryan Woodhouse	Catalog #	10-152-801
Project Start Date	06/05/17	Project Completion Date	08/19/17
Campus where project will be completed	<input checked="" type="checkbox"/> Madison-Truax <input type="checkbox"/> Madison-Downtown <input type="checkbox"/> Madison-Commercial Avenue <input type="checkbox"/> Madison-South <input type="checkbox"/> Madison-West <input type="checkbox"/> Fort Atkinson <input type="checkbox"/> Portage <input type="checkbox"/> Reedsburg <input type="checkbox"/> Watertown <input type="checkbox"/> Online		

Title of Project (limit 30 characters with spaces)	Mathtastic! Online Game
Description of Honors Project (limit 211 characters with spaces)	Mathtastic! is a game created to encourage young learners to embrace the complex world of math. Users are able to toggle images, so they can practice by counting pictures, or use numeric values.

Eligibility for Honors Project:

<p><u>Completed By Student and Honors Supervising Faculty Member (check all that apply):</u></p> <p><input checked="" type="checkbox"/> The student has a cumulative GPA of 3.5 or higher from Madison College</p> <p><input checked="" type="checkbox"/> The student has completed a minimum of 12 college degree credits</p> <p><input type="checkbox"/> (For incoming high school students only) The student has a cumulative High School GPA of 3.5 or higher</p> <p><input type="checkbox"/> The student is currently enrolled in a course with the Instructor</p> <p><input checked="" type="checkbox"/> The student was previously enrolled in a course with the Instructor</p> <p><input checked="" type="checkbox"/> The student has received Instructor permission</p>	<p><u>Completed by Honors Program Director:</u></p> <p>_____ Cum. GPA</p> <p>_____ # Credits</p> <p>_____ Permission</p>
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Learning Objectives (please be specific):

<ul style="list-style-type: none"> Design, build and deploy a responsive web-based game from scratch using Java and MySQL Utilize source control/version control (Git/GitHub) Document resources, findings, and the project code in a professional manner Integrate multiple languages/technologies such as Java, PHP, JavaScript, HTML, and an IDE Research and utilize basic graphic animation Incorporate a simple artificial intelligence to ask missed questions at random until they are answered correctly

Criteria for evaluating the Honors Project (please include a breakdown of the % of the overall grade for each project component; these should align with the Learning Objectives above; you may also attach a grading rubric):

<p><u>A to F grading scale;</u></p> <ul style="list-style-type: none"> Design, build and deploy a web-based game from scratch using Java and MySQL. Utilize source control/version control (Git/GitHub), research and implement basic graphic animation, integrate multiple languages/technologies such as Java, PHP, JavaScript, HTML, and an integrated development environment (IDE). Incorporate a simple artificial intelligence - 65% Document design, resources, findings, and the project code in a professional manner 25% Discussions with instructor - 10%

Required Meetings, Conferences, or Other Activities:

Weekly meetings; During weekly meetings, discuss the plan and design of the application and demonstrate progress to date.

Textbooks and other Required Materials:

Computer and software, including an integrated development environment. I will also use reference materials including textbooks and resources from the internet.

Required Certification:

- ☒ I understand that I am responsible for providing a final copy of my Honors Project to the Honors Program Director at the end of the semester. (Contact the Honors Program Director to work out the details for submission of non-paper Honors Projects.)

For Honors Projects that Require Institutional Review Board (IRB) Approval:

- ☐ I plan to conduct research involving human subjects in my Honors Project (e.g., observations, interviews, oral histories, survey respondents, etc.) and will obtain approval from the Madison College Institutional Review Board (IRB) prior to collecting data. (Please see below for required forms and information to be submitted with the Learning Contract.)
- ☐ I have completed either a literature review or an annotated bibliography as a previous Honors Project on this topic.
 - ☐ I have attached the Honors Faculty Research Experience Checklist.
 - ☐ I have attached a copy of the Informed Consent Form for the Honors Project.
 - ☐ My Honors Project involves survey research. I have attached a copy of the interview questions to be asked.
- **NOTE:** For an example of an Informed Consent Form and further information about the policies and procedures for Honors Projects involving human subjects, please see the **Institutional Review Board** section on the Honors Program website.
- ☐ I plan to conduct research involving animals in my Honors Project (please contact the Honors Program Director for instructions and information prior to collecting data).

Required Signatures:

You must have the proper signatures below before enrolling in the Honors Program.

<u>Holliann Niesen</u>	<u>05/11/17</u>		
Student	Date	Supervising Honors Faculty Member	Date
Dean	Date	Honors Program Director	Date