GAM 4412-01

Digital Game Prototyping

T/Th 11:40 Am – 1:20 Pm

Fall 2023 Syllabus and Course Calendar

Classroom: NQSC 125C  
Instructor: Brian Heagney  
Office: NQSC 341

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| Professor Heagney’s Office Hours | | | | |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| 1:00 – 2:30 PM | 10 – 11:00 AM | 1:00 – 2:30 PM | 10 – 11:00 AM |  |

Phone: x 9063 Cell phone: 336-456-2672  
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LinkedIn: www.linkedin.com/in/brianheagney/

Course Description

Students learn to make prototypes for digital games using digital and analog methods. The process of game testing and the role of prototyping in the game development process are examined. Students will learn rapid prototyping skills using a variety of digital development tools. Prerequisite: GAM 2252. Four Credits

Flex-Clause

Due to the nature of holding University classes during a national pandemic, I am reserving the right for any part of this course to change based on pressures from anything related to COVID-19. This includes any issues faced by students in this course, but also issues faced by myself, the instructor.

I am making it my mission to deliver the content to you, the student, and if we need to be flexible in the face of a pandemic, we will do what it takes to get through any obstacles thrown in our way.

Course Objectives

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| Student Learning Outcomes: | **By the end of the course, students will** | **Method for Assessing this Learning Outcome** |
| gain experience designing prototypes for alternative controllers | Alt Ctrl |
| be able to develop rapid prototypes for a variety of games and gameplay experiences | All major Projects |
| be able to use AAA game engines to code and script for playtesting and prototyping purposes | All Game Jams |
| Become comfortable prototyping a game concept based on a new game engine. | Game Jam 2 |
| Understand the benefits of paper-prototyping | Game Jam 3 |
| Realize how powerful rapid prototyping is and how important it is to jump into the project right away | All major Projects |
| Gain the prototype state of mind | All major projects |

Textbooks and Required Course Materials

* **NO TEXTBOOK**—While there will be assigned readings and videos for this course, all materials are available online for no cost. Details for weekly readings will be hosted on blackboard.
* A **USB flash drive 16GB** (or higher) OR online hosting space.  Every student’s storage space will differ. Some students have used 10 GB, some students have used much more. While we will be using Github and Github Desktop to push and pull SOME game files, students will need to keep track of 3D models, Photoshop files, Audition files, etc. Ensure all of your assets are available for every class.
* **Software/Computer Labs** – There will be a lot of use of digital software for this class, all of which are installed on the computers in NQSC 125C (The Game Lab). It is expected that you will have to organize your time accordingly to use this software, ensuring that you schedule time to work in the Game Lab when there is not another class going on.

Assignments and grading

* **Alt Ctrl (20% of grade) –** Students will work in groups to develop an original game prototype that uses an alternative controller which will also be developed by the group. Any student group invited to show their game at GDC’s Alt Ctrl show will receive A+ and Extra Credit. Full details will be on Blackboard.
* **Play (Intro to Gameplay Design) (13% of grade) –** Students will become familiar with the process of using blueprints to affect gameplay aspects of the player character. One purpose of this assignment is to teach technical skills for designing gameplay. Another purpose is to teach students how to have fun with exploring different gameplay options, and how to iterate upon those design choices. Full details will be on Blackboard.
* **Prototype 1 (UE) (13% of grade) –** Students will use what they learned in the Play assignment to prototype a new and unique game concept using Unreal Engine. Full details will be on Blackboard.
* **Prototype 2 (Other Engine) (13% of grade) –** Students will choose to work with a game engine they have not used before and develop a game prototype based on requirements of a game jam (TBA). The purpose is to help students become comfortable working on new technology to achieve a goal. Full details will be on Blackboard.
* **Prototype 3 (Paper) (13% of grade) –** Students will use paper prototyping skills to investigate and iterate a design prototype for a game. The professor will reveal details directly before this module begins. Full details will be on Blackboard.
* **Prototype 4 (Student’s Choice) (13% of grade) –** Students will prototype a game concept using engine / application of their choice. The professor will reveal details directly before this module begins. Full details will be on Blackboard.
* **Participation (15% of grade)** – Throughout the semester, we will engage in various activities in class, which will be counted for participation.

Expectations for out-of-class work

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| Out-of-Class Work: | In addition to attending class and completing all course requirements, students are expected to spend at least 2 hours each week engaged in out-of class work (i.e., reading, studying, doing homework, working on projects, etc.) for every hour of credit earned in this course. |

According to HPU’s accreditation guidelines, for every 1 hour of credit earned in a course, students are expected to spend at least 2 hours each week engaged in out-of-class work (i.e., reading, studying, doing homework, working on projects, etc.). Therefore, in a 4-credit course, students are expected to commit an average of at least eight hours per week outside of class. (In a 2-credit course that meets for half of the semester, you are still expected to commit to an average of eight hours per week.) The estimates listed below reflect the out-of-class time expectations for a typical student – some students might need more or less time on these assignments.

* Assigned Readings & Videos – approx. 25 hrs out of class
* Alt Ctrl– approx. 27 hrs out of class
* Play (Intro to Gameplay Design) – approx. 18 hrs out of class
* Prototype 1 (UE) – approx. 12 hrs out of class
* Prototype 2 (Other Engine) – approx. 10 hrs out of class
* Prototype 3 (Paper) – approx. 12 hrs out of class
* Prototype 4 (Student’s Choice) – approx. 16 hrs out of class

Deadlines

See School of Communication policy at end of this document (short version = late work loses one letter grade per day; no late work is accepted after three days).

Grading

Why I don’t round up: (**B+** plus **B+** plus **B+**) / 3 = **B+** ergo(**89.9** + **89.9** + **89.9**) / 3 = **89.9**

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| --- | --- | --- | --- | --- |
| A (superior) –superior quality (90-100%) | B (excellent) –clearly above average (80-89.9%) | C (average) satisfactory work (70-79.9%) | D (inferior) –good enough to credit (60-69.9%) | F (failure) –work fails to meet the minimum expectations (0-59.9%) |
| A+ (97 - 100) | B+ (87 - 89.9) | C+ (77 - 79.9) | D+ (67 - 69.9) | F (0-59.9%) |
| A (93 - 96.9) | B (83 - 86.9) | C (73 - 76.9) | D (63 - 66.9) |
| A-(90 - 92.9) | B-(80 - 82.9) | C-(70 - 72.9) | D-(60 - 62.9) |

Please note that simply completing all required elements of an assignment does not entitle you to an A. Acceptable work of average quality earns a C. You must go above average expectations to receive an above average grade. This mimics the professional world of communication, where basic proficiency might get you in the door at the entry level, but creative thinking and a willingness to go beyond the minimum expectations are necessary to get noticed and advance.

Submissions for assignments:

All students must use blackboard to submit to every assignment (except “participation”). If a student does not submit to blackboard, then the professor will not be able to offer feedback, the student will receive a 0%, and the assignment will be counted as “late”.

Most of the time the assignment will list what you will need to submit. If there is no official submission request from the professor, use best judgement based on knowing that the professor will review all of your work. You will very likely need to submit all files that you worked on which could include word documents, animation files, 3D modeling files, etc.

In the event that you are working on a class repository that everyone has access to and you think that you don’t need to “submit” anything, remember that you MUST submit something to blackboard in order to receive a grade and feedback. If it is true that you do not “need” to submit an actual file, then you still must submit something to the blackboard assignment, such as a note of where to find your important game level, a short write-up of how your submission responds to the assignment, or at minimum a note saying “Hello, Heagney!”

**Remember:** If you don’t submit anything to Blackboard, it’s as if you’ve submitted nothing at all.

Feedback

All students will receive feedback through blackboard rubrics. If you don’t know how to access comments on the rubrics, seek help! (I can help.)

Grade Availability

This class is based on 1000 points. Once assignments are graded and posted, your grade will automatically update and be available on blackboard. This grade will be based on the current number of points you’ve earned, divided by the number of points that have been available up to that point.

Grade Appeal

If a student has a complaint or concern about a faculty member regarding a grade, they should first try to resolve it with the instructor in question. If the complaint is not resolved through this interaction, the student should then go to the Department Chair. If the instructor of the course also serves as a Chair, then the student should approach the Dean as the first step in the process.

For this course, a student should pursue the following process:

1. Talk with the instructor of the course,

2. Talk with Dr. Stefan Hall who serves as the Chair of the Nido R. Qubein School of Communication’s Game Design department.

The decision of the Chair/Dean is final.

Grievance Procedure

If a student has a complaint or concern about a faculty member regarding any matter other than a grade, they should first try to resolve it with the instructor in question. If the complaint is not resolved through this interaction, the student should then go to:

1.     the Department Chair;

2.     the Dean of the School of Communication; then

3.     the Senior Vice-President of Academic Affairs, which is the final step in the grievance process.

Bypassing any of these steps—going directly to the president, for example—will not resolve the issue and will only delay resolution. Senior administration will not deal with grievance issue unless it has been discussed at the appropriate level.

For this course, a student should pursue the following process:

1. Talk with the instructor of the course.

2. Talk with Dr. Stefan Hall who serves as the Core Courses Coordinator of the Nido R. Qubein School of Communication.

3. Talk with Dr. McDermott, who serves as the Dean of the Nido R. Qubein School of Communication.

4. Talk with Dr. Bauer, who serves as the Senior Vice President of Academic Affairs of High Point University.

The decision of the Senior Vice President is final.

Policies for Assignments & Exams

Late work

See School of Communication policy at end of this document (short version = late work loses one letter grade per day; no late work is accepted after three days).

Makeup Exams

If this course has quizzes, then quiz due dates are final. Because the nature of my quizzes are that they are online and readily available, make-up exams will only be allowed due to typical reasons such as hospitalization or major accident or incident. Please discuss this with me in person.

Attendance Policy

After two unexcused absences you will receive a Starfish notice (because we care). After a **SIXTH ABSENSE** you will be **dropped from the class**. Exceptions will only be granted for university-sanctioned events (with prior notice) or hospitalization (with a doctor’s note). Tardies are also unacceptable. Be on time. Better yet, be early. Three tardies will equal an absence. Students will not be permitted to make up grades for work missed due to an unexcused absence or tardy.

Diversity

This course relies on students considering the diverse nature of players as they design for specific demographics. This course also encourages students to understand the diverse nature of problem-solving techniques when it comes to prototyping.

Oars Accommodations In The Classroom

High Point University welcomes students with disabilities into our educational programs. HPU promotes efforts to provide equal access and a culture of inclusion without altering the essential elements of coursework. If you anticipate or experience academic barriers that may be due to disability, including but not limited to, chronic medical conditions, Deaf or hard of hearing, learning disability, mental health, or vision impairment, please contact the Office of Accessibility Resources and Services at 336-841-9026 or OARS@highpoint.edu. The OARS office is located on the 4th floor of Smith Library

If you have an OARS accommodation letter, you are required to do the following:

(A) Meet with me privately during office hours or a scheduled appointment as early in the semester as possible to discuss implementing your accommodations. I am here to help you, and I want to make sure we discuss how best to integrate your OARS approved accommodations in a way that helps make you successful. Your accommodations will be implemented only after we meet to discuss the best path for your success.

(B) Give me reasonable notice (at least three business days) to implement your accommodations.

(C) If you have testing accommodations and we determine together that it would be best for you to take exams in the OARS testing center, you must arrange through OARS with sufficient notice (3 business days for exams/quizzes and 6 business days for midterms and final). If you do not arrange your exam with OARS, I will not be able to provide extended time, assistive technology, or a distraction free environment, but you will be able to take the exam with the class.

(D) If you experience any access barriers in this course that are part of your OARS accommodations, such as with printed content, graphics, online materials, or any communication barriers; reach out to me or OARS right away.

Course-Specific Policies

Blackboard Blackboard Blackboard Blackboard Blackboard

I am a self-avowed blackboard nut and evangelist. I use blackboard for all of my class administration, and therefore you MUST use blackboard as well. If you have never used Blackboard before, it will become your friend. If Blackboard is already your friend, you will become BFFs. If you dislike Blackboard, then please come see me and I will evangelize to you appropriately. The following is how I use Blackboard:

**Typical Blackboard Structure:** This course follows a typical structure on blackboard that is centered around modules that culminate in very specific deliverables (major projects). For each module there will be a series of readings, videos, and quizzes that must be followed in order, as shown in the diagram below (may vary by course):

**MODULE**

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| Read the Module Assignment |

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| Short Quiz on the assignment |

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| View Intro Video |

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| --- |
| Short Quiz on the Intro |

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| Begin reviewing the module’s assigned readings/videos |

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| --- |
| Submit main module assignment |

**Assignments:** All assignments will be hosted and explained in Blackboard. Every major assignment will have a rubric attached to it in Blackboard, which will help you understand how assignments will be assessed.

For every assignment, you MUST submit something through Blackboard. If you complete an assignment and do not submit it to Blackboard, it is as if you have not completed it and it will be counted as late.

**Assignment Calendar:** Blackboard has an amazing assignment calendar associated with it. When you go to the Blackboard assignment calendar, you will be able to see EVERY assignment and quiz that is assigned so you won’t ever forget!

**Syllabus:** This syllabus will also be hosted on Blackboard.

**Blackboard is Master:** Blackboard assignment dates and descriptions take precedence over all dates/descriptions on this syllabus.

**Feedback:** Feedback for ALL assignments (including final assignments) will be conducted through blackboard rubrics.

Problems with Blackboard: Please contact IT IMMEDIATELY if you do not have access to our class blackboard page. I cannot help you, only IT can help you. It is your responsibility to remedy the problem ASAP so you can participate in the course.

Absences and tardies

After two unexcused absences you will receive a Starfish notice (because we care). After a SIXTH ABSENSE you will be dropped from the course. Exceptions will only be granted for university-sanctioned events (with prior notice) or hospitalization (with a doctor’s note). Tardies are also unacceptable. Be on time. Better yet, be early. Three tardies will equal an absence. Students will not be permitted to make up grades for work missed due to an unexcused absence or tardy.

Copyright, Plagiarism, and cheating

Each of you signed the HPU Honor Code and it is your responsibility to abide by it. Cheating or plagiarism can result in failure for the course. Theft of intellectual property (such as images, audio, or video) is equivalent to plagiarism. See the School of Communication policies on plagiarism and copyright at the end of this document.

On occasion, the professor will provide media/materials for use in class.  These materials may include photos, video/audio files, scripts, and design templates.  These items are copyrighted (by the professor and others) and may only be used in classroom exercises as specified by the professor.  Consequently, students may not use media supplied by the professor in their projects unless they have been given permission to do so. Student projects containing unauthorized material provided by the professor may be penalized or disqualified.  Students also may not share, distribute, or post online any media that contains media elements provided by the professor.

In addition, the professor holds the copyright on all course materials including lectures, PowerPoint presentations, handouts, video/audio media, etc.  Consequently, course sessions and materials cannot be recorded, copied, or distributed in any form without the written permission of the professor.

Plagiarism involves copying the work of others and/or representing it as your own without attribution. Students should not use any media created by another student or outside entity (e.g. downloaded online) in their assignments without prior permission from the professor.  In addition, students should not copy edited sequences, documents, sessions, or projects and represent them as their own. Incidents of copyright infringement and plagiarism will be treated as University Honor Code violations.

Exam Block

At High Point University, every course is expected to use its designated exam block. While I try to clearly mark the exam block date and time on this syllabus and on Blackboard, please note that if it is incorrect for any reason, it is expected that ALL STUDENTS verify the correct date and time using the Registrar’s website.

In this course, we will use the exam block for a graded in-class activity counting for participation.

STARFISH SYLLABUS STATEMENT

High Point University cares about your success!

This course is part of a HPU initiative that utilizes Starfish Connect, a communication tool for students and faculty. Through Starfish, instructors, coaches, and advisors provide feedback to you about course progress by emailing you about your academic performance. The emails are designed to be helpful by identifying strategies that increase your success in courses. Be sure to open any emails you receive and follow the recommendations.

Your instructor, coach, or advisor may also recommend that you contact a specific campus resource, such as the Learning Lab or Counseling Center. If an instructor makes a referral, you may also be contacted directly by this campus service as a follow-­‐up.

Starfish also allows you to schedule appointments with various offices and individuals across campus and request help on a variety of topics.

Heagney Etiquette

Email

I will return all emails within 24 hours. If you don’t hear back from me, it is because I made a mistake so feel free to follow-up with me if I don’t respond.

I purposefully do not have my work email on my phone so feel free to email any time of day and please do not apologize for sending emails.

When crafting an email to me, don’t feel the need to include flowery or overly sophisticated language. Just tell me what’s going on and how I can help you. Also, please include which class you’re emailing about. I have many of you in multiple classes and I’ll need that context to quickly help.

Clearly state the problem you have and how I can help. Use screenshots (PASTE INTO THE BODY DO NOT “ATTACH”). Too often in the past, students would just email that they were having problems, and I could not help them in my reply.

When crafting your email, if it’s a question for class, please don’t stress too much about typos. I’m here to be your advocate for learning the material and I’d rather you spend your time on the material, and not worrying about my judging typos (that we all make).

If you’re emailing me for a recommendation then of course you’d want to spend time crafting it properly, but for general day-to-day class emails that sort of worry isn’t necessary.

Example email:

Hey Heagney,

I have a question about the 3D Modeling course.

I’m confused about one of the “missions” of the second assignment (Title of assignment) because my project may not be able to use that particular feature. My project is a \_\_\_\_\_\_\_ but the mission to \_\_\_\_\_\_\_\_ seems to not be compatible.

Can you help me figure out a way that I can continue with my project but still get credit for that constraint?

Thanks!

-Student

Texting

I offer my cell number in case there’s an emergency but please don’t abuse it. This is for moments when you might need a quick response from me right away and waiting 24 hours might be moot. For instance, maybe I’m up and able to answer a question about programming a game engine or 3D modeling. I’m always fine with a quick text if I can help.

Always include your name and class because I might have not stored your name in my phone. Even if I’ve texted with you before, I might have been lazy and not stored your name, or I have a good friend with that name and I don’t want to make a mistake by thinking you’re my friend.

My cell: 336-456-2672

Addressing Me

You may address me in any of the following ways, in order of my own preference:

1. Heagney
2. Professor Heagney
3. Mr. Heagney

Tentative schedule

This is a tentative schedule that is subject to change. Details for each week’s assignments will be posted on Blackboard.

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| --- | --- | --- | --- | --- | --- |
| Week | Day | Date | Topic / Module | To Do | Estimated Hours |
| 1 | Tuesday | 8/22 | Alt Ctrl |  | Readings / Viewings: 3 hrs Alt Ctrl: 5 hrs |
| Thursday | 8/24 |  |
| 2 | Tuesday | 8/29 |  | Readings / Viewings: 1 hrs Alt Ctrl: 7 hrs |
| Thursday | 8/31 |  |
| 3 | Tuesday | 9/5 |  | Readings / Viewings: 1 hrs Alt Ctrl: 7 hrs |
| Thursday | 9/7 |  |
| 4 | Tuesday | 9/12 |  | Alt Ctrl: 8 hrs |
| Thursday | 9/14 | MAJOR: Alt Ctrl |
| 5 | Tuesday | 9/19 | Intro to Gameplay Design |  | Readings / Viewings: 3 hrs Play (Gameplay Design): 5 hrs |
| Thursday | 9/21 |  |
| 6 | Tuesday | 9/26 |  | Readings / Viewings: 3 hrs Play (Gameplay Design): 5 hrs |
| Thursday | 9/28 |  |
| 7 | Tuesday | 10/3 |  | Play (Gameplay Design): 8 hrs |
| Thursday | 10/5 | MAJOR: Gameplay Design |
| break | Tuesday | 10/10 |  |  |  |
| Thursday | 10/12 |  |  |
| 8 | Tuesday | 10/17 | Prototype 01 (UE) |  | Readings / Viewings: 2 hrs UE Prototype: 6 hrs |
| Thursday | 10/19 |  |
| 9 | Tuesday | 10/24 |  | Readings / Viewings: 2 hrs UE Prototype: 6 hrs |
| Thursday | 10/26 | MAJOR: Prototype 01 |
| 10 | Tuesday | 10/31 | Prototype 02 (New Engine) |  | Readings / Viewings: 3 hrs NEW Engine Prototype: 5 hrs |
| Thursday | 11/2 |  |
| 11 | Tuesday | 11/7 |  | Readings / Viewings: 3 hrs NEW Engine Prototype: 5 hrs |
| Thursday | 11/9 | MAJOR: Prototype 02 |
| 12 | Tuesday | 11/14 | Prototype 03 (Paper) |  | Readings / Viewings: 2 hrs Paper Prototype: 6 hrs |
| Thursday | 11/16 |  |
| 13 | Tuesday | 11/21 |  | Readings / Viewings: 2 hrs Paper Prototype: 6 hrs |
| Thursday | 11/23/2023 NO CLASS  THANKSGIVING | MAJOR: Prototype 03 |
| 14 | Tuesday | 11/28 | Prototype 04 (Student's Choice) |  | Student's Choice Prototype: 8 hrs |
| Thursday | 11/30 |  |
| 15 | Tuesday | 12/5 |  | Student's Choice Prototype: 8 hrs |
| Thursday | 12/7 | MAJOR: Prototype 04 |
| Exam Block | Tuesday | 12/12/2023 3:30 - 6:30 PM |  |  |  |

**School of Communication Policies, Practices and Expectations**

Students are expected to adhere to all standards outlined in the School of Communication’s Policies, Practices, and Expectations (located at  [http://www.highpoint.edu/communication/files/nqsc\_syllabus\_policies.pdf](https://mobile.highpoint.edu/owa/redir.aspx?C=JyyBBLgH4fYmI71qL7W8GyxmheTK83O7pgF3_zLiu7DsPhTIQFTVCA..&URL=http%3a%2f%2fwww.highpoint.edu%2fcommunication%2ffiles%2fnqsc_syllabus_policies.pdf) unless alternate standards are specifically outlined elsewhere in this syllabus.