WORCESTER POLYTECHNIC INSTITUTE

WORCESTER, MASSACHUSETTS 01609

Name: Matthew Hendrickson
ID: 590810759
Print Date: Jul 8, 2025
Declare Date: Aug 15, 2021

Academic Level: Undergraduate
Programs of Study: Computer Science (BS)
Interactive Media and Game Development - Technology (BS)
Degree Awarded: Bachelor's Degree
Degree Date: May 13, 2023
Honors: With High Distinction

Transfer Credit

Term	Course	Grade	Attempted	Earned
TR	CS 1000 - COMPUTER SCIENCE ELECTIVE	L	3	3
TR	CS 2000 - COMPUTER SCIENCE ELECTIVE	CR	3	3
TR	CS 2000 - COMPUTER SCIENCE ELECTIVE	CR	3	3
TR	CS 2000 - COMPUTER SCIENCE ELECTIVE	CR	3	3
TR	CS 2011 - Introduction To Machine Organization And Assembly Language	CR	3	3
TR	CS 2223 - Algorithms	CR	3	3
TR	CS 3516 - Computer Networks	CR	3	3
TR	IMGD 1000 - Critical Studies Of Interactive Media And Games	CR	3	3
TR	IMGD 2900 - Digital Game Design I	CR	3	3
TR	IMGD 3000 - Technical Game Development I	CR	3	3
TR	IMGD 4000 - Technical Game Development II	CR	3	3
TR	IMGD 4900 - Digital Game Design Studio	CR	3	3
TR	INTL 1100 - Introduction To International And Global Studies	CR	3	3
TR	MA 1021 - Calculus I	CR	3	3
TR	MA 2071 - Matrices And Linear Algebra I	CR	3	3
TR	MA 2201 - Discrete Mathematics	CR	3	3
TR	PE 1000 - P.E. Equivalence	L	3	3
TR	PSY 1400 - Introduction To Psychological Science	L	3	3
TR	PSY 1402 - Social Psychology	CR	3	3
TR	PSY 1412 - Mental Health	CR	3	3
TR	PY 2712 - Social And Political Philosophy	CR	3	3
TR	WR 1010 - Elements Of Writing	CR	3	3

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Transfer Credit

Term	Course	Grade	Attempted	Earned
TR	WR 1020 - Introduction To Rhetoric	CR	3	3

2021 Fall Semester *Dean's List

Term	Course	Grade	Attempted	Earned
A21	CS 4123 - Theory Of Computation	A	3	3
A21	MA 1022 - Calculus II	A	3	3
A21	PH 1110 - General Physics-Mechanics	A	3	3
B21	AR 1101 - Digital Imaging And Computer Art	A	3	3
B21	ES 2001 - Introduction To Materials Science	A	3	3
B21	IMGD 2400 - Writing Characters For Interactive Media & Games	A	3	3
B21	MA 1023 - Calculus III	A	3	3

2022 Spring Semester *Dean's List

Term	Course	Grade	Attempted	Earned
C22	BB 1001 - Introduction To Biology	P	3	3
C22	CS 4341 - Introduction To Artificial Intelligence	A	3	3
C22	GE 2341 - Geology	A	3	3
C22	MA 1024 - Calculus IV (group 3)	A	3	3
D22	CDR HUA - Gravity’s Rainbow: Technology, Freedom, and Control	A	0	0
D22	CS 3733 - Software Engineering	A	3	3
D22	HU 3900 - INQ SEM: Literature/Science; Gravity Rainbow	A	3	3
D22	IMGD 4099 - ST: Procedural Narrative Design	A	3	3

2022 Summer Semester

Term	Course	Grade	Attempted	Earned
E22	CDR IQP - Creating Features for Personalized Tutoring in ASSISTments	A	0	0
E22	ID IQP - ASSISTments Software Dev't IQP	A	9	9

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2022 Fall Semester *Dean's List

Term	Course	Grade	Attempted	Earned
A22	CS 3431 - Database Systems I	A	3	3
A22	ID MQP - Imperius: a Space Real-Time Strategy Game	A	3	3
A22	MA 2621 - Probability For Applications	A	3	3
B22	BB 1003 - Explrng Bioinfmtcs & Compu Bio	A	3	3
B22	CS 4342 - Machine Learning	A	3	3
B22	ID MQP - Imperius: a Space Real-Time Strategy Game	A	3	3
B22	IMGD 2030 - Game Audio I	A	3	3

2023 Spring Semester *Dean's List

Term	Course	Grade	Attempted	Earned
C23	CS 4731 - Computer Graphics	A	3	3
C23	ID MQP - Imperius: a Space Real-Time Strategy Game	A	3	3
C23	IMGD 3100 - Novel Interfaces For Interactive Environments	A	3	3
D23	CDR MQP - Imperius: A Space Real-Time Strategy Game	A	0	0
D23	CS 4999 - Networking for Game Design	A	3	3
D23	ID MQP - Imperius: a Space Real-Time Strategy Game	A	3	3
D23	IMGD 2999 - Ethical Narrative Game Design	A	3	3
D23	MA 2611 - Applied Statistics I (group 1)	A	3	3

CDR HUA - Completion of Degree Requirement HUA **2022 Spring Semester** **Grade: A**

Gravity's Rainbow: Technology, Freedom, and Control

The invention of new technology has typically been shown by authors and viewed by the audience in a positive light. Thomas Pynchon has a drastically different opinion as shown in his novel Gravity's Rainbow. Pynchon attempts to warn us of the dangers that come alongside these new technologies, which is perhaps represented by his reclusive lifestyle away from the cameras, media, and the internet. While technology can be used as a method of Control, it can also be used as a method of freedom, as demonstrated in Gravity's Rainbow.

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CDR IQP - Completion of Degree Requirement IQP	2022 Summer Semester	Grade: A

Creating Features for Personalized Tutoring in ASSISTments

This IQP was an eclectic development of various features for the ASSISTments online learning platform. We designed features to identify student gaming behaviors, used trigram matching to determine similarity between hints and explanations of problems, concatenated data to find streaks of correctly answered problems, and clustered Common Core descriptions based on embeddings from MathBERT. We also simulated using deep Bayesian bandits to recommend content in the form of supports to struggling students. Our models were able to predict whether or not a student would get the next problem correct more frequently than random using an epsilon-greedy (RMS) model. All features were completed successfully and integrated into the ASSISTments Automatic Personalized Learning Service (APLS).

CDR MQP - Completion of Degree Requirement MQP	2023 Spring Semester	Grade: A

Imperius: A Space Real-Time Strategy Game

Imperius is a 3D real-time strategy space game developed in the Unity Engine by a team of four WPI seniors over the course of the 2022-2023 academic year. The game features a 6-mission campaign and 4-player steam integrated multiplayer. The development team employed common methodologies such as scrum and agile to stay on track and meet deadlines, while also adapting to the challenges of designing a complex game. In addition to the core team, two other WPI students contributed through independent study projects, and around two dozen voice actors were also utilized. This project represents the culmination of several years of work in a variety of different disciplines such as Computer Science, Software Engineering, 3D modeling, SFX, VFX, Level Design, and more.

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WORCESTER POLYTECHNIC INSTITUTE
Worcester, Massachusetts

ACCREDITATION

WPI is fully accredited by the New England Commission of Higher Education (formerly the New England Association of Schools and Colleges). Accreditation indicates that the institution has been carefully evaluated and found to meet standards agreed upon by qualified educators. Many individual programs are accredited by discipline specific agencies. Please see http://www.wpi.edu/about/accreditation for the most up to date information.

RELEASE OF INFORMATION

The Family Education Rights and Privacy Act of 1974 prohibits the release of this record to any other person or agency without the express written consent of the student named on the transcript.

CALENDAR AND ACADEMIC LOAD

Undergraduate calendar

Consists of four accelerated terms in two semesters plus an optional summer term.

Fall A term: 7 weeks Spring C term: 7 weeks
Fall B term: 7 weeks Spring D term: 7 weeks
Summer (E) terms: 5, 7, 10, or 14 week sessions

Normal undergraduate academic load consists is one unit (9 credits) per term.

Graduate calendar

The majority of graduate level courses run on a traditional 14-week semester, but may vary depending on program.

DEGREE REQUIREMENTS-UNDERGRADUATE PROGRAM

1986 and thereafter – 15 units (135 credits)
Including the completion of three projects.
- Major Qualifying Project (MQP)
- Interactive Qualifying Project (IQP)
- Sufficiency/Humanities & Arts Requirement

(an 80-word abstract of each project is located on the transcript)
Descriptions of these three projects may be found in the University catalog.

GRADES AND CREDIT

Non-degree seeking students, graduate students, and undergraduate students (prior to 1971) follow the traditional scale.

A	4.0	
B	3.0	
C	2.0	
D	1.0	Unacceptable for graduate credit
F	0.0	
P	—	Pass; Minimum grade of C obtained
X	0.0	Fail for pass/fail courses

With the implementation of the WPI Plan in 1970, undergraduate student performance was evaluated on the basis of Distinction and Acceptable.

1971-1986			Equivalent
	AD/DIST	Distinguished Work	A
	AC	Acceptable Work	B/C

1986-Present		
	A	Distinguished Work
	B	Acceptable Work
	C	Acceptable Work
	P	Pass; Minimum grade of C obtained

Unacceptable work in regular courses is not recorded

Other grades appearing on transcript

AU	Audit
SP	Interim grade indicating satisfactory progress during the respective term
UP	Unsatisfactory progress
DEF	The work is continuing and a grade will be assigned upon completion
I	Incomplete
NAC	The student did not perform satisfactorily on the project or independent study
CR	Transfer Credit
L	Advanced Placement or course waived, no substitution required
AT	Attended
S	Satisfactory
? or Q	Grade not on file
W	Withdrawn; Not factored in GPA
/R	Repeated Course
NC	No credit awarded; Not factored in GPA

Undergraduate semester credit hour equivalents may be determined according to the following conversion table:

1 unit	=	9 credit hours
1/2 unit	=	4.5 credit hours
1/3 unit	=	3 credit hours
1/6 unit	=	1.5 credit hours
1/9 unit	=	1 credit hour
1/12 unit	=	.75 credit hour

CUMULATIVE GRADE POINT AVERAGE

Undergraduate Students

WPI does not maintain a cumulative grade point average for undergraduate students. A student requiring a cumulative grade point average for external use may apply to the Registrar and receive a numerical equivalent based on a point assignment of A=4.0, B-3.0, C=2.0, while DIST and AC grades will be 4.0 and 2.75 respectively.

Graduate Students

Grades are assigned the following grade points: A = 4.0, B = 3.0, C = 2.0, D = 1.0 and F = 0.0. The grade point average is calculated as the sum of the products of the grade points and credit hours for each registered activity in the average, divided by the total number of credit hours for all registered activities in the average. If a student takes the same course more than once, the course enters the GPA only once, the most recent grade received for the course being used in the average.

COURSE NUMBERING SYSTEM

1000-4999	Undergraduate Level
500-999	Graduate Level
5000-9999	Graduate Level

CROSS-REGISTRATION COURSES

Course subjects beginning with “CO”

AC	=	Assumption College
AMC	=	Anna Maria College
BC	=	Becker College
CSV	=	Cummings School of Veterinary Medicine
CU	=	Clark University
HC	=	College of the Holy Cross
MCP	=	Mass. College of Pharmacy and Health Sciences
QCC	=	Quinsigamond Community College
UMM	=	University of Massachusetts Medical School
WSU	=	Worcester State University

TRANSFER CREDIT

Students may apply to transfer credit for courses taken at other institutions. Transfer credit allowed is determined upon admission to WPI. A student taking courses at other schools subsequent to enrolling at WPI must have advance approval from the respective department and a review of performance to receive transfer credit.

Office of the Registrar
508-831-5211
registrar@wpi.edu
www.wpi.edu/+registrar

OPE ID: 002233
CEEB: 3969

Revised 7/2020