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WORCESTER POLYTECHNIC INSTITUTE

WORCESTER, MASSACHUSETTS 01609

DA 932111 D1/P1

NAME: VERDEJA, YIL ALBERTO

ID: 474 41 7736

PRINT DATE: NOVEMBER 2, 2020

MAJOR 1: ELECTRICAL & COMPUTER ENG.
MAJOR 2: ROBOTICS ENGINEERING

MINOR 1: COMPUTER SCIENCE

ENTRY DATE: AUGUST 27, 2015

DEGREE AWARDED: BACHELOR OF SCIENCE
DEGREE DATE: MAY 11, 2019
HONORS: WITH HIGH DISTINCTION

TRM	COURSE NO.	COURSE OR PROJECT TITLE	UNITS	GRADE
F15	CS 1000	COMPUTER SCIENCE ELECTIVE ADVANCED PLACEMENT	1/3	L
F15	GEO 1000	GEOGRAPHY ADVANCED PLACEMENT	1/3	L
F15	MA 1021	CALCULUS I ADVANCED PLACEMENT	1/3	L
F15	MA 1022	CALCULUS II ADVANCED PLACEMENT	1/3	L
F15	PH 1000	PHYSICS ELECTIVE ADVANCED PLACEMENT	1/3	L
F15	PH 1110	GENERAL PHYSICS-MECHANICS ADVANCED PLACEMENT	1/3	L
F15	PE 1210	CL SP- MEN ULTIMATE FRISBEE TM	1/12	C
A15	AR 1101	DIG IMAGING & COMPUTER ART	1/3	A
A15	CH 1010	MOLECULARITY	1/3	A
A15	MA 1023	CALCULUS III	1/3	A
B15	AR 2201	THE ART OF ANIMATION I	1/3	A
B15	MA 1024	CALCULUS IV	1/3	A
B15	PE 1018	VOLLEYBALL	1/12	A
B15	PH 1121	PRIN OF PHYSICS: E & M	1/3	A
***	**DEAN'S LIST**	**FALL 2015**		
C16	ECE 2010	INTRO TO ELEC & COMPUTER ENGIN	1/3	A
C16	MA 2621	PROBABILITY FOR APPLICATIONS	1/3	A
C16	ME 1800	MFG SCI, PRTPNG & CMP-CNTR MCH	1/3	A
D16	ECE 2029	INTRO TO DIGITAL CIRCT DESIGN	1/3	A
D16	MA 2051	ORDINARY DIFFER. EQUATIONS	1/3	A
D16	RBE 1001	INTRODUCTION TO ROBOTICS	1/3	A
***	**DEAN'S LIST**	**SPRING 2016**		
A16	ECE 2049	EMBEDDED COMPUTNG IN ENG DESGN	1/3	A
A16	RBE 2001	UNIFIED ROBOTICS I: ACTUATION	1/3	A
A16	RE 3731	PROBS IN ETHICS & SOCIAL PHIL	1/3	A
B16	CS 2102	OBJCT-ORIENTED DESIGN CONCEPTS	1/3	A
B16	ES 2501	INTRO TO STATIC SYSTEMS	1/3	A
B16	MA 2071	MATRICES&LINEAR ALGEBRA I	1/3	A
B16	MU 1611	FUNDAMENTALS OF MUSIC I	1/3	A
***	**DEAN'S LIST**	**FALL 2016**		
C17	AR 2202	FIGURE DRAWING	1/3	A
C17	ECE 2019	SENSORS, CIRCUITS, & SYSTEMS	1/3	A
C17	ETR 3633	ENTREPRENEURIAL SELLING	1/3	B
C17	PE 1054	PLYOMETRICS	1/12	A
D17	CS 2223	ALGORITHMS	1/3	B
D17	HU 3910	PRAC IN HUA: FIGURE IN MOTION	1/3	A
D17	RBE 2002	UNIFIED ROBOTICS II: SENSING	1/3	A
***	**DEAN'S LIST**	**SPRING 2017**		
E17	IQP VJM	INTERACTIVE MUSIC WITH GAME	1	A
A17	CS 4233	OBJ-ORIENTED ANALYSIS & DESIGN	1/3	A
A17	ECE 2201	MICROELECTRONIC CIRCUITS I	1/3	A
A17	PE 1099	HEALTHY ALTERN: ZUMBA	1/12	A
A17	PSY 1402	SOCIAL PSYCHOLOGY	1/3	A
B17	ECE 2799	ELECTR & COMPUTER ENGIN DESIGN	1/3	A
B17	ECE 3503	POWER ELECTRONICS	1/3	A
B17	ECE 4902	ANALOG INTEGR CIRCUIT DESIGN	1/3	A
***	**DEAN'S LIST**	**FALL 2017**		
C18	CS 4341	INTRO TO ARTIFICIAL INTELLIGEN	1/3	A
C18	ECE 2112	ELECTROMAGNETIC FIELDS	1/3	A
C18	RBE 3001	UNIFD ROBTICS III:MANIPULATION	1/3	A
D18	ECE 3012	INTRO TO CONTROL SYSTEMS ENGIN	1/3	A
D18	ECE 3204	MICROELECTRONIC CIRCUITS II	1/3	A
D18	PE 1099	HEALTHY ALTERN: ZUMBA	1/12	A
D18	RBE 3002	UNIFIED ROBOTICS IV:NAVIGATION	1/3	A
***	**DEAN'S LIST**	**SPRING 2018**		
E18	INT 1000	INTERNSHIP	-0-	AT
A18	ECE 3829	ADV DIGITAL SYS DESGN W FPGAS	1/3	A
A18	ES 1310	INTRO TO COMPU AIDED DESIGN	1/3	A
A18	MQP CP4	FIREFIGHTING ROBOT	1/3	A
B18	CS 3733	SOFTWARE ENGINEERING	1/3	A
B18	MQP CP4	FIREFIGHTING ROBOT	1/3	A
B18	PE 1054	PLYOMETRICS	1/12	A

Sarah K. Miles, University Registrar

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TRM	COURSE NO.	COURSE OR PROJECT TITLE	UNITS	GRADE
C19	BB 1035	BIOTECHNOLOGY	1/3	A
C19	GOV 2314	CYBERLAW AND POLICY	1/3	B
C19	MQP CP4	FIREFIGHTING ROBOT	1/3	A
D19	CS 453X	MACHINE LEARNING	1/3	A
D19	ECE 3849	REAL-TIME EMBEDDED SYSTEMS	1/3	A
D19	MQP CP4	FIREFIGHTING ROBOT	1/3	A
***	**DEAN'S LIST**	**SPRING 2019**		

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MAJOR QUALIFYING PROJECT APRIL 26, 2019 GRADE: A UNITS: 1 1/3 ADVISOR: PINCIROLI, C.

FIREFIGHTING REMOTE EXPLORATION DEVICE

FIRE ENVIRONMENTS ARE DANGEROUS AND CONSTANTLY CHANGING. THE GOAL OF THIS PROJECT WAS TO DESIGN AND BUILD A ROBOT TO PROVIDE FIREFIGHTERS WITH ADDITIONAL INFORMATION ABOUT A FIRE ENVIRONMENT TO HELP THEM MAKE MORE INFORMED DECISIONS WHEN FIGHTING A FIRE. WE HAVE BUILT A PROTOTYPE ROBOT THAT IS COMPACT AND QUICK TO DEPLOY, WITH A HEAT, WATER, AND IMPACT-RESISTANT CHASSIS DESIGNED TO FUNCTION IN UNPREDICTABLE FIREGROUNDS. THE REMOTE-CONTROLLED ROBOT RETURNS A REAL-TIME VIDEO FEED AND A HEAT MAP OF A DESIGNATED AREA IN A BUILDING.

INTERACTIVE QUALIFYING PROJECT SEPTEMBER 7, 2017 GRADE: A UNITS: 1 ADVISOR: MANZO, V. J.

PRESENTING MUSICAL CONCEPTS THROUGH VIDEO GAME TECHNOLOGY

LEARNING MUSIC CAN BE CHALLENGING, AND MUSICAL INSTRUMENTS ARE OFTEN EXPENSIVE. RESEARCH SUGGESTS THAT BY LEVERAGING TECHNOLOGY AND VIDEO GAMES, IT MAY BE POSSIBLE TO PROVIDE INNOVATIVE ALTERNATIVES TO TRADITIONAL MUSIC LEARNING SO THAT PEOPLE CAN LEARN MUSIC CONCEPTS IN AN IMMERSIVE AND COST-EFFECTIVE WAY. DURING THIS IQP, OUR TEAM EXPLORED WAYS TO TEACH RELATIVE PITCH INFORMALLY TO AN AUDIENCE OF BOTH MUSICIANS AND NONMUSICIANS. AFTER DEVELOPING A PROTOTYPE INFORMED BY BACKGROUND RESEARCH, WE CONDUCTED INTERVIEWS WITH PROFESSIONAL MUSIC EDUCATORS TO GATHER FEEDBACK ON OUR DESIGN AND THE VIABILITY OF OUR APPLICATION AS AN INFORMAL LEARNING TOOL. WE REFINED THE PROTOTYPE ACCORDING TO THE FEEDBACK AND SURVEYED ANOTHER GROUP OF PARTICIPANTS WITH VARYING MUSIC SKILLS TO GATHER MORE FEEDBACK.

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SUFFICIENCY MAY 9, 2017 GRADE: A UNITS: -0- ADVISOR: REINHARDT, J.

KANGAROOS IN MOTION

KANGAROOS ARE MARSUPIAL MAMMALS THAT HAVE POWERFUL HIND LEGS FOR JUMPING, AND STRONG MUSCULAR TAILS FOR BALANCING. KANGAROOS IN MOTION IS A FOUR PIECE ARTWORK, DONE ON A CHARCOAL MEDIUM, WHICH PORTRAYS THE SERENITY OF A KANGAROOS LEAP, AS WELL AS IT CROSSING THE GRASSLANDS OF AUSTRALIA. THE ARTWORK ILLUSTRATES THE KANGAROO IN FOUR DIFFERENT POSITIONS AND SETTINGS, WHICH INCLUDES A FORESHORTENED VIEW, AND A SILHOUETTE. IT SYMBOLIZES THE MANY WAKES OF LIFE THAT EVERY CREATURE ENDURES.

Sarah K. Miles, University Registrar

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
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