



**PROGRAM OF STUDY**  
**Bachelor of Science in Entertainment and Multimedia Computing**  
per CHED Memorandum Order No. 2 series 2014  
Approved per MarSU Board of Regent Resolution No. \_\_\_\_ series 2025  
Effective First Semester Academic Year 20\_\_-20\_\_

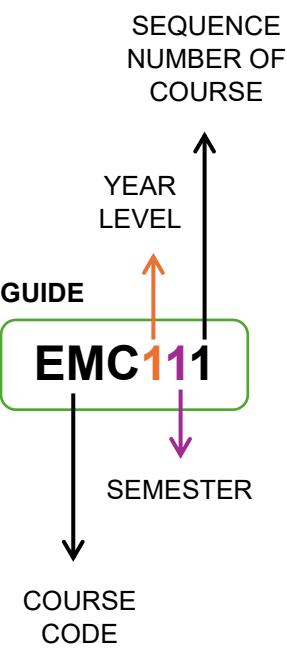
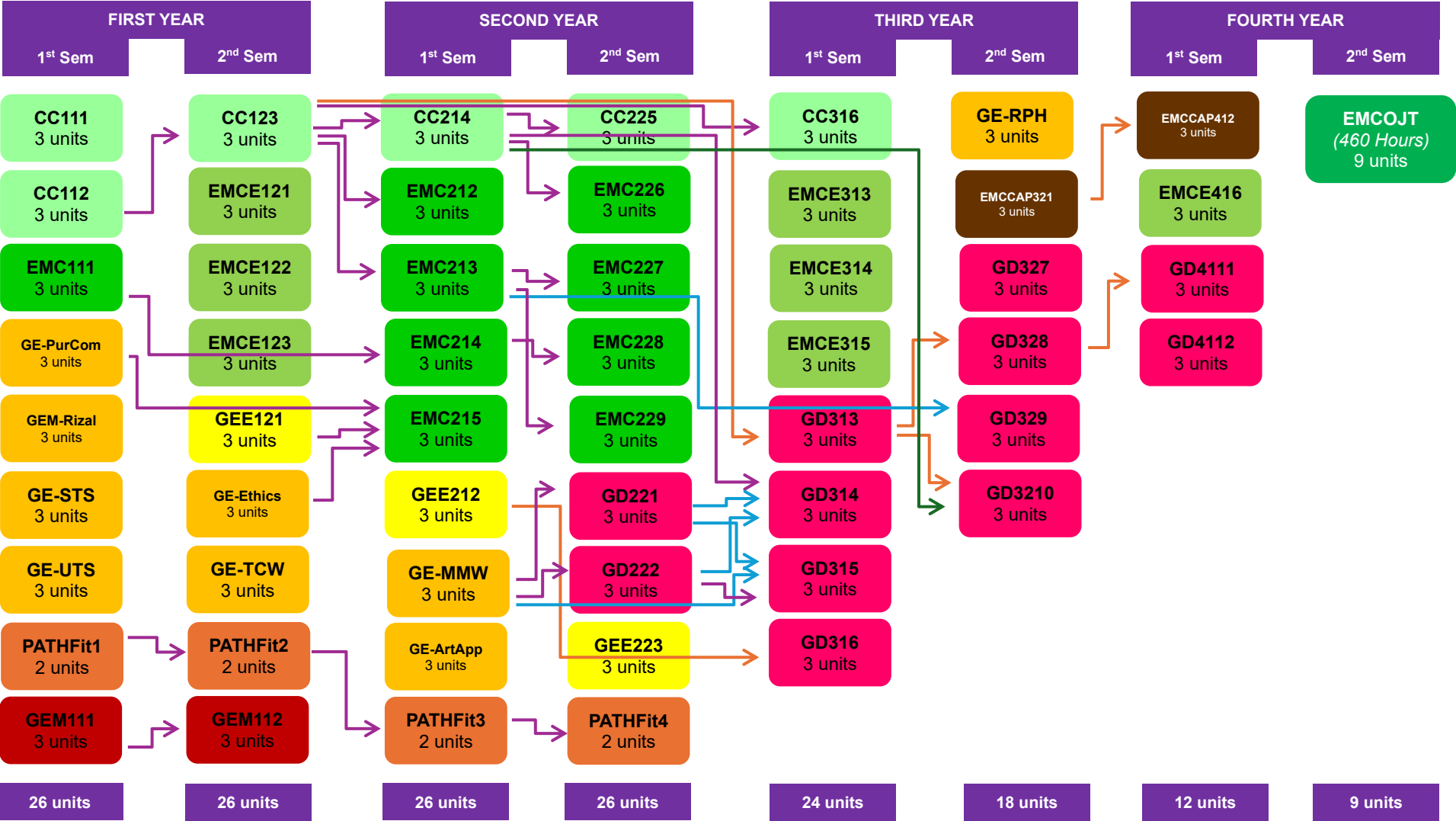
FIRST YEAR								
First Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
CC111	Introduction to Computing	3	0	3	0	54	0	None
CC112	Computer Programming 1	2	1	2	3	36	54	None
EMC111	Freehand and Digital Drawing	2	1	2	3	36	54	None
GE-PurCom	Purposive Communication	3	0	3	0	54	0	None
GEM-Rizal	Life and Works of Rizal	3	0	3	0	54	0	None
GE-STIS	Science, Technology and Society	3	0	3	0	54	0	None
GE-UTS	Understanding the Self	3	0	3	0	54	0	None
PATHFit1	Movement Competency Training	2	0	2	0	36	0	None
GEM111	National Service Training Program 1	3	0	3	0	0	0	None
Total		24	2	24	6	378	108	
Second Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
CC123	Computer Programming 2	2	1	2	3	36	54	CC112
EMCE121	Multimedia Arts Solutions	3	0	3	0	54	0	None
EMCE122	Systems Analysis and Design	2	1	2	3	36	54	None
EMCE123	Professional Issues in Computing	3	0	3	0	54	0	None
GEE121	Modern Communication and Technical Writing	3	0	3	0	54	0	None
GE-Ethics	Ethics	3	0	3	0	54	0	None
GE-TCW	The Contemporary World	3	0	3	0	54	0	None
PATHFit2	Exercise-based Fitness Activities	2	0	3	0	0	0	PATHFit1
GEM112	National Service Training Program 2	3	0	3	0	0	0	GEM111
Total		24	2	25	6	342	108	
SECOND YEAR								
First Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
CC214	Data Structures and Algorithms	2	1	2	3	36	54	CC123
EMC212	Usability, HCI, and User Interaction Design	2	1	2	3	36	54	CC123
EMC213	Introduction to Game Design and Development	2	1	2	3	36	54	CC123
EMC214	Principles of 2D Animation	2	1	2	3	36	54	EMC111
EMC215	Script Writing and Storyboard Design	3	0	3	0	54	0	GEE121, GE-PurCom, GE-Ethics
GEE212	Physics (Mechanics)	3	0	3	0	54	0	None
GE-MMW	Mathematics in the Modern World	3	0	3	0	54	0	None
GE-ArtApp	Art Appreciation	3	0	3	0	54	0	None
PATHFit3	Sports	2	0	2	0	36	0	PATHFit2
Total		22	4	22	12	396	432	
Second Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
CC225	Information Management	2	1	2	3	36	54	CC214
EMC226	Computer Graphics Programming	2	1	2	3	36	54	CC214
EMC227	Audio Design and Sound Engineering	2	1	2	3	36	54	EMC213
EMC228	Principles of 3D Animation	2	1	2	3	36	54	EMC214
EMC229	Design and Production Process	2	1	2	3	36	54	EMC213
GEE223	Living in the IT Era	3	0	3	0	54	0	None
PATHFit4	Sports	2	0	2	0	36	0	PATHFit3
Specialized in GAME DEVELOPMENT								
GD221	Linear Algebra in 2D and 3D	3	0	3	0	54	0	GE-MMW
GD222	Analytic Geometry in Games	3	0	3	0	54	0	GE-MMW
Specialized in DIGITAL ANIMATION-TECHNOLOGY								
DA221	Photography	3	0	3	0	54	0	EMCE121
DA222	Film Directing	3	0	3	0	54	0	None
Total		21	5	21	15	378	270	

THIRD YEAR								
First Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
CC316	Applications Development & Emerging Technologies	2	1	2	3	36	54	CC123
EMCE313	Methods of Research in Entertainment and Multimedia Computing	3	0	3	0	36	54	All Courses Passed in All Previous Semesters
EMCE314	Seminar in Special IT Topics	2	1	2	3	36	54	None
EMCE315	Presentation Skills in Information Technology	2	1	2	3	36	54	None
Specialized in GAME DEVELOPMENT								
GD313	Game Programming I	2	1	2	3	36	54	CC123
GD314	Artificial Intelligence (AI) in Games	2	1	2	3	36	54	CC204, GE-MMW, GD221, GD222
GD315	Applied Mathematics for Games	2	1	2	3	36	54	GE-MMW, GD221,GD222
GD316	Applied Game Physics	2	1	2	3	36	54	GEE212
Specialized in DIGITAL ANIMATION-TECHNOLOGY								
DA313	Image and Video Processing	2	1	2	3	36	54	CC214
DA314	Modelling and Rigging	2	1	2	3	36	54	EMC228
DA315	Lighting and Effects	2	1	2	3	36	54	EMC228
DA316	Advanced Sound Production	2	1	2	3	36	54	EMC227
	Total	17	7	17	21	288	432	
Second Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
GE-RPH	Readings in Philippine History	3	0	3	0	54	0	None
EMCCAP321	Capstone Project 1	3	0	3	0	54	0	All Courses Passed in all Previous Semesters
Specialized in GAME DEVELOPMENT								
GD327	Project Management	3	0	3	0	54	0	All Courses Passed in all Previous Semesters
GD328	Game Programming II	2	1	2	3	36	54	GD313
GD329	Advanced Game Design	2	1	2	3	36	54	EMC213
GD3210	Game Networking	2	1	2	3	36	54	CC214, GD313
Specialized in DIGITAL ANIMATION-TECHNOLOGY								
DA327	Project Management	3	0	3	0	54	0	All Courses Passed in all Previous Semesters
DA328	Advanced 2D Animation	2	1	2	3	36	54	EMC214
DA329	Advanced 3D Animation and Scripting	2	1	2	3	36	54	EMC228
DA3210	Texture and Mapping	2	1	2	3	36	54	EMC228
	Total	15	3	15	9	270	162	
FOURTH YEAR								
First Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
EMCCAP412	Capstone Project 2	3	0	3	0	54	0	EMCCAP321
EMCE416	Technopreneurship	2	1	2	3	36	54	None
Specialized in GAME DEVELOPMENT								
GD4111	Game Programming III (game engines, 2D games, and 3D games programming)	2	1	2	3	36	54	GD328
GD4112	Game Production	3	0	3	0	54	0	4th Year Standing
Specialized in DIGITAL ANIMATION-TECHNOLOGY								
DA4111	Compositing and Rendering	2	1	2	3	36	54	EMC228
DA4112	Animation Design and Production	3	0	3	0	54	0	4th Year Standing
	Total	10	2	10	6	180	108	
Second Semester								
Course Code	Course Title	No. of Units		No. of		Total No. of Hrs per		Prerequisite/s
		Lec	Lab	Lec	Lab	Lec	Lab	
EMCOJT	On the Job Training		9	460 hours				Completed Academic Requirements
	Total		9	460 hours				

	Required units in the CMO	Indicated in the Program
General Education	57	24
General Education Elective		9
Mandated Courses	14	17
Common Courses	18	18
Professional Courses	54	27
Specialization Courses		36
Professional Elective Courses	9	21
Capstone Project	6	6
OJT	9	9
<b>TOTAL</b>	<b>167</b>	<b>167</b>

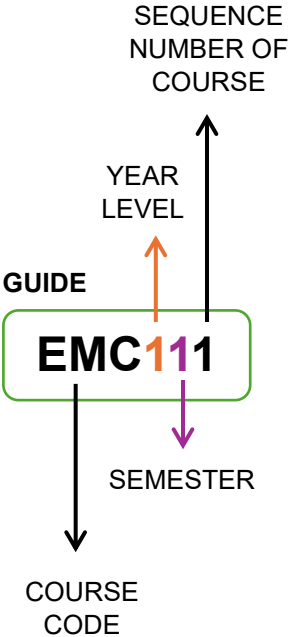
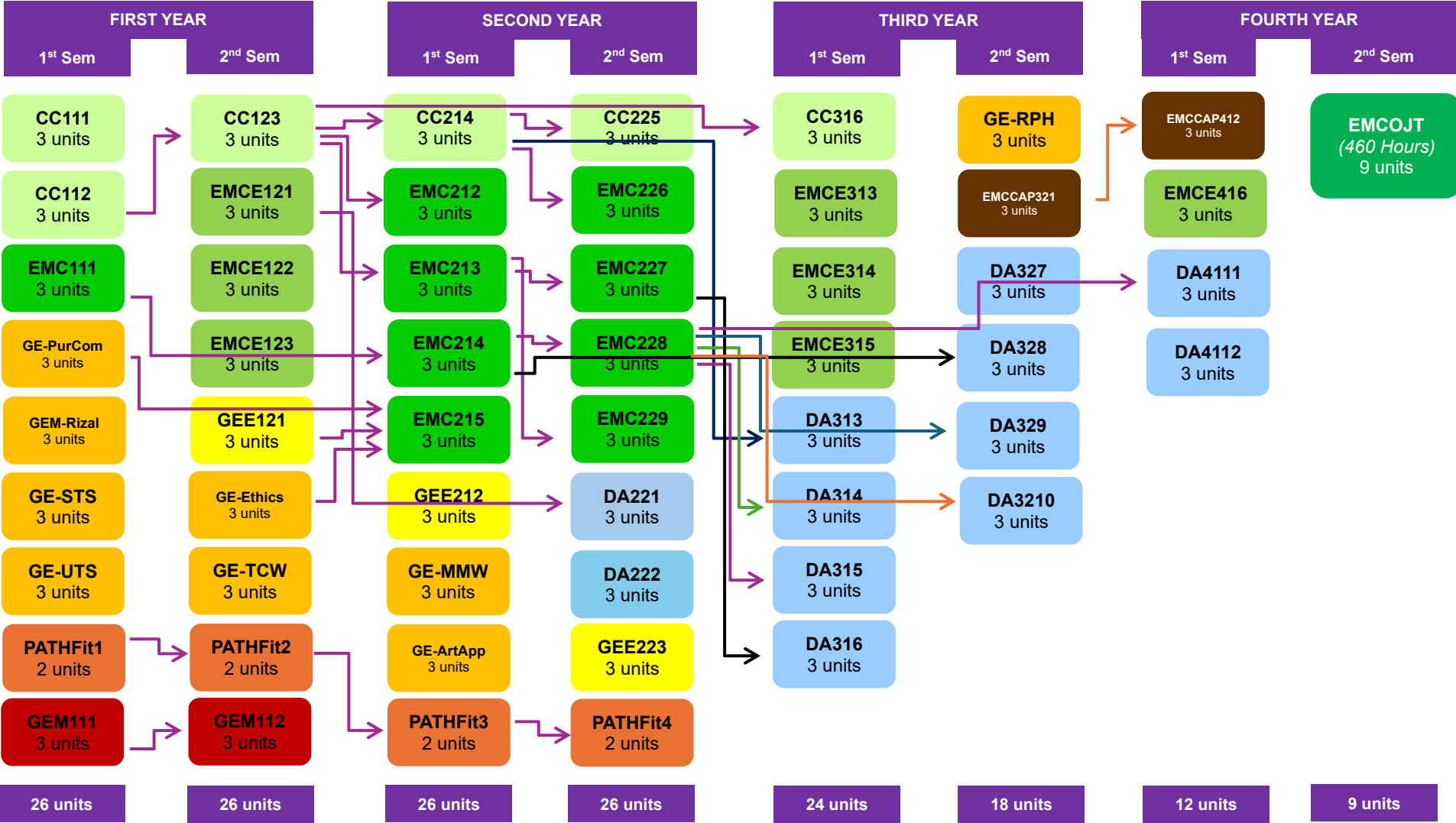
PROSPECTUS

Bachelor of Science in Entertainment and Multimedia Computing (BS EMC) *with Specialization in Game Development*



PROSPECTUS

Bachelor of Science in Entertainment and Multimedia Computing (BS EMC) with Specialization in Digital Animation-Technology



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