

Bachelor of Science in Computer Engineering Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Fall Semester

Total Degree Credit hours: 144

Semester	Course Code	Course Title	CR	Course type	Semester	Course Code	Course Title	CR	Course type
Year 1 1 (Fall)	ENGL1001	Introduction to Academic English for Information Technology	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 2 (Spring)	CMPE2001	Discrete Mathematics	3	College Requirement
	CMPE1001	Calculus	3	Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning)		CMPE2002	Computer Architecture	3	College Requirement
	CMPE1002	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)		CMPE2003	Object Oriented Programming	3	College Requirement
	CMPE1003	General Physics I	3	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)		CMPE2004	Digital Design & Computer Organization	3	College Requirement
	CMPE1004	General Physics Lab I	1	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)		CMPE2005	Programming Lab I	1	Specialization
Year 2 3 (Fall)	CMPE1005	General Physics Lab II	1	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)	Year 2 4 (Spring)	CMPE2006	Systems Studies	3	Gen Ed Course (Cluster 2: Area 3: Empirical Society)
	CMPE1006	Mathematical Computing	3	Specialization		MAPE2001	Calculus	3	Specialization
	CMPE1007	Linear Algebra	3	Specialization		CMPE2002	Computer Architecture	3	Specialization
	CMPE1008	Discrete Mathematics	3	Specialization		CMPE2003	Object Oriented Programming	3	Specialization
	CMPE1009	General Physics I	3	Specialization		CMPE2004	Digital Design & Computer Organization	3	Specialization
Year 3 5 (Fall)	CMPE1010	General Physics Lab I	1	Specialization	Year 3 6 (Spring)	CMPE2005	Programming Lab I	1	Specialization
	CMPE1011	General Physics Lab II	1	Specialization		CMPE2006	Systems Studies	3	Specialization
	CMPE1012	Mathematical Computing	3	Specialization		CMPE2007	Calculus	3	Specialization
	CMPE1013	Linear Algebra	3	Specialization		CMPE2008	Computer Architecture	3	Specialization
	CMPE1014	Discrete Mathematics	3	Specialization		CMPE2009	Object Oriented Programming	3	Specialization
Year 4 7 (Fall)	CMPE1015	General Physics I	3	Specialization	Year 4 8 (Spring)	CMPE2010	Digital Design & Computer Organization	3	Specialization
	CMPE1016	General Physics Lab I	1	Specialization		CMPE2011	Programming Lab I	1	Specialization
	CMPE1017	General Physics Lab II	1	Specialization		CMPE2012	Systems Studies	3	Specialization
	CMPE1018	Mathematical Computing	3	Specialization		CMPE2013	Calculus	3	Specialization
	CMPE1019	Linear Algebra	3	Specialization		CMPE2014	Computer Architecture	3	Specialization
Year 5 9 (Fall)	CMPE1020	Discrete Mathematics	3	Specialization	Year 5 10 (Spring)	CMPE2015	Object Oriented Programming	3	Specialization
	CMPE1021	General Physics I	3	Specialization		CMPE2016	Digital Design & Computer Organization	3	Specialization
	CMPE1022	General Physics Lab I	1	Specialization		CMPE2017	Programming Lab I	1	Specialization
	CMPE1023	General Physics Lab II	1	Specialization		CMPE2018	Systems Studies	3	Specialization
	CMPE1024	Mathematical Computing	3	Specialization		CMPE2019	Calculus	3	Specialization

Bachelor of Science in Computer Engineering Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Spring Semester

Total Degree Credit hours: 144

Semester	Course Code	Course Title	CR	Course type	Semester	Course Code	Course Title	CR	Course type
Year 1 1 (Spring)	ENGL1001	Introduction to Academic English for Information Technology	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 2 (Fall)	CMPE2001	Discrete Mathematics	3	College Requirement
	CMPE1001	Calculus	3	Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning)		CMPE2002	Computer Architecture	3	College Requirement
	CMPE1002	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)		CMPE2003	Object Oriented Programming	3	College Requirement
	CMPE1003	General Physics I	3	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)		CMPE2004	Digital Design & Computer Organization	3	College Requirement
	CMPE1004	General Physics Lab I	1	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)		CMPE2005	Programming Lab I	1	Specialization
Year 2 3 (Spring)	CMPE1005	General Physics Lab II	1	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)	Year 2 4 (Fall)	CMPE2006	Systems Studies	3	Gen Ed Course (Cluster 2: Area 3: Empirical Society)
	CMPE1006	Mathematical Computing	3	Specialization		MAPE2001	Calculus	3	Specialization
	CMPE1007	Linear Algebra	3	Specialization		CMPE2002	Computer Architecture	3	Specialization
	CMPE1008	Discrete Mathematics	3	Specialization		CMPE2003	Object Oriented Programming	3	Specialization
	CMPE1009	General Physics I	3	Specialization		CMPE2004	Digital Design & Computer Organization	3	Specialization
Year 3 5 (Spring)	CMPE1010	General Physics Lab I	1	Specialization	Year 3 6 (Fall)	CMPE2005	Programming Lab I	1	Specialization
	CMPE1011	General Physics Lab II	1	Specialization		CMPE2006	Systems Studies	3	Specialization
	CMPE1012	Mathematical Computing	3	Specialization		CMPE2007	Calculus	3	Specialization
	CMPE1013	Linear Algebra	3	Specialization		CMPE2008	Computer Architecture	3	Specialization
	CMPE1014	Discrete Mathematics	3	Specialization		CMPE2009	Object Oriented Programming	3	Specialization
Year 4 7 (Spring)	CMPE1015	General Physics I	3	Specialization	Year 4 8 (Fall)	CMPE2010	Digital Design & Computer Organization	3	Specialization
	CMPE1016	General Physics Lab I	1	Specialization		CMPE2011	Programming Lab I	1	Specialization
	CMPE1017	General Physics Lab II	1	Specialization		CMPE2012	Systems Studies	3	Specialization
	CMPE1018	Mathematical Computing	3	Specialization		CMPE2013	Calculus	3	Specialization
	CMPE1019	Linear Algebra	3	Specialization		CMPE2014	Computer Architecture	3	Specialization
Year 5 9 (Spring)	CMPE1020	Discrete Mathematics	3	Specialization	Year 5 10 (Fall)	CMPE2015	Object Oriented Programming	3	Specialization
	CMPE1021	General Physics I	3	Specialization		CMPE2016	Digital Design & Computer Organization	3	Specialization
	CMPE1022	General Physics Lab I	1	Specialization		CMPE2017	Programming Lab I	1	Specialization
	CMPE1023	General Physics Lab II	1	Specialization		CMPE2018	Systems Studies	3	Specialization
	CMPE1024	Mathematical Computing	3	Specialization		CMPE2019	Calculus	3	Specialization

Bachelor of Science in Computer Engineering Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Fall Semester

Total Degree Credit hours: 131

Semester	Course Code	Course Title	CR	Course type	Semester	Course Code	Course Title	CR	Course type
Year 1 1 (Fall)	ENGL1001	Introduction to Academic English for Information Technology	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 2 (Spring)	CMPE2001	Discrete Mathematics	3	College Requirement
	CMPE1001	Calculus	3	Gen Ed Course (Cluster 1: Area 3: Quantitative Reasoning)		CMPE2002	Computer Architecture	3	College Requirement
	CMPE1002	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)		CMPE2003	Object Oriented Programming	3	College Requirement
	CMPE1003	General Physics I	3	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)		CMPE2004	Digital Design & Computer Organization	3	College Requirement
	CMPE1004	General Physics Lab I	1	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)	Year 2 4 (Spring)	CMPE2005	Programming Lab I	1	Specialization
Year 2 3 (Fall)	CMPE1005	General Physics Lab II	1	Gen Ed Course (Cluster 1: Area 5: Natural Sciences)		CMPE2006	Systems Studies	3	Gen Ed Course (Cluster 2: Area 3: Empirical Society)
	CMPE1006	Mathematical Computing	3	Specialization		MAPE2001	Calculus	3	Specialization
	CMPE1007	Linear Algebra	3	Specialization		CMPE2002	Computer Architecture	3	Specialization
	CMPE1008	Discrete Mathematics	3	Specialization		CMPE2003	Object Oriented Programming	3	Specialization
Year 3 5 (Fall)	CMPE1009	General Physics I	3	Specialization	Year 3 6 (Spring)	CMPE2004	Digital Design & Computer Organization	3	Specialization
	CMPE1010	General Physics Lab I	1	Specialization		CMPE2005	Programming Lab I	1	Specialization
	CMPE1011	General Physics Lab II	1	Specialization		CMPE2006	Systems Studies	3	Specialization
	CMPE1012	Mathematical Computing	3	Specialization		CMPE2007	Calculus	3	Specialization
	CMPE1013	Linear Algebra	3	Specialization		CMPE2008	Computer Architecture	3	Specialization
Year 4 7 (Fall)	CMPE1014	Discrete Mathematics	3	Specialization	Year 4 8 (Spring)	CMPE2009	Object Oriented Programming	3	Specialization
	CMPE1015	General Physics I	3	Specialization		CMPE2010	Digital Design & Computer Organization	3	Specialization
	CMPE1016	General Physics Lab I	1	Specialization		CMPE2011	Programming Lab I	1	Specialization
	CMPE1017	General Physics Lab II	1	Specialization		CMPE2012	Systems Studies	3	Specialization
	CMPE1018	Mathematical Computing	3	Specialization		CMPE2013	Calculus	3	Specialization
Year 5 9 (Fall)	CMPE1019	Linear Algebra	3	Specialization	Year 5 10 (Spring)	CMPE2014	Computer Architecture	3	Specialization
	CMPE1020	Discrete Mathematics	3	Specialization		CMPE2015	Object Oriented Programming	3	Specialization
	CMPE1021	General Physics I	3	Specialization		CMPE2016	Digital Design & Computer Organization	3	Specialization
	CMPE1022	General Physics Lab I	1	Specialization		CMPE2017	Programming Lab I	1	Specialization
	CMPE1023	General Physics Lab II	1	Specialization		CMPE2018	Systems Studies	3	Specialization