# **Computer Science – Computer Engineering Track**

3+2 Engineering Dual Degree Program

Bachelor of Science (BS.CS(ENGR))

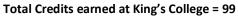
<b>Core Requir</b>	ements		Credits	Notes/Instructions
College Sem.	Quest for Meaning	CSEM 100	3	*A student may be required to take ENGL 105 and/or MATH 100 based on
Communication & Creative Expression	Writing Oral Communication Literature The Arts	ENGL 110 <sup>†</sup> COMM 101 ENGL 140-149 ARTS 100-149	3 3 (3) (3)	placement exams administered prior to their first semester at King's College. ENGL 105 and MATH 100 are 3-credit courses and will count as free electives. #1 The Intercultural
Citizenship	History Intercultural Global Connections	HIST 100-149 FREN/GERM/SPAN 100-level or Study Abroad <sup>++</sup> ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199	(3) (3) (3)	Competence requirement can be satisfied by taking a 100- level language class for 3 credits or participating in an approved Study Abroad experience.
Quantitative & Scientific Reasoning	SBM   Quantitative Reasoning     SBM   Scientific Endeavor     SBM   Science in Context     Human Beh. & Soc. Inst	MATH 120 <sup>+</sup> or higher level NSCI 100 NSCI 171-199 ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101	- - (3)	SBM = Satisfied By King's Major requirement(s) and credit(s) listed below. (3) To satisfy the King's
Wisdom, Faith, & the Good Life	Introduction to Phil. Phil. Investigations Theology & Wisdom Theology & the Good Life	PHIL 101 PHIL 170-199; MSB 287 THEO 150-159 THEO 160-169	(3) (3) (3) (3)	Core requirements, a student will need to complete seven (7) Core requirements at Notre Dame or Washington University

Foundational Mathematics, Science and	
Engineering Requirements	Credits
PHYS 113 <sup>2,CR</sup> Physics for Science & Engineering I	3
PHYS 113L Phys. for Sci. & Eng. I Lab	1
PHYS 114 <sup>PR</sup> Physics for Science & Engineering II	3
PHYS 114L <sup>PR</sup> Phys. for Sci. & Eng. II Lab	1
CHEM 113 <sup>2</sup> General Chemistry I	3
CHEM 113L General Chemistry I Lab	1
CHEM 114 <sup>PR</sup> General Chemistry II	3
CHEM 114L <sup>PR</sup> General Chemistry II Lab	1
MATH 129 Calculus I	4
MATH 130 <sup>PR</sup> Calculus II	4
MATH 231 <sup>PR</sup> Calculus III	4
MATH 250 Linear Algebra	4
MATH 361 Probability & Statistics I	3
PHYS 233 Electronics I	3
PHYS 233L Electronics I Lab	1
ENGR 150 Engineering Seminar	2
ENGR 250 <sup>PR</sup> System Design & Analysis	3
ENGR 250L <sup>PR</sup> Syst. Design & Analysis Lab	1
Other Requirements	
HCE 101 Holy Cross Experience	1
Total Foundational Mathematics, Science and	
Engineering Requirements and Other Credits	46

Total Core Credits taken at King's

CS 112 Introduction to Programming3CS 120 Object Oriented Software Development3CS 120L Object Oriented Software Develop. Lab1CS 232 Data Structures3CS 232L Data Structures Lab1CS 233 Advanced Data Structures3CS 233L Advvanced Data Structures Lab1CS 256 Database Management3CS 270 Computer Organization3CS 270 Computer Organization Lab1CS 270 Computer Organization Lab1CS 364 Operating Systems3CS 480 Software Engineering-CS Elective (5 courses total)-MATH 127 Logic & Axiomatics3MATH 235 Discrete Mathematics3Total Physics Major Credits35General InformationCollaboration CORECourses. Eligible students will then transfer to Notre Dame orWashington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more information, refer to the college catalog).	Computer Science Major Requirements	Credits				
CS 120L Object Oriented Software Develop. Lab1CS 232 Data Structures3CS 232 Data Structures Lab1CS 233 Advanced Data Structures3CS 233L Advvanced Data Structures Lab1CS 256 Database Management3CS 256L Database Management Lab1CS 270 Computer Organization3CS 270L Computer Organization Lab1CS 315 Programming Paradigms3CS 364 Operating Systems3CS 480 Software Engineering-CS 480 Software Engineering-MATH 127 Logic & Axiomatics3MATH 235 Discrete Mathematics3Total Physics Major Credits35Constation with the University of Notre Dame and with WashingtonUniversity in St. Louis. Students will spend three years at King's Collegetaking mathematics, science, engineering, and general education COREcourses. Eligible students will then transfer to Notre Dame orWashington University for two years to complete engineering courses intheir chosen field. Upon successful completion of the program, studentswill receive both a B.S. in Computer Science from King's College and a B.S.in Computer Engineering from either Notre Dame or WashU. (For more	CS 112 Introduction to Programming	3				
CS 232 Data Structures3CS 232L Data Structures Lab1CS 233 Advanced Data Structures3CS 233L Advvanced Data Structures Lab1CS 233L Advvanced Data Structures Lab1CS 256 Database Management3CS 256L Database Management Lab1CS 270 Computer Organization3CS 270L Computer Organization Lab1CS 270L Computer Organization Lab1CS 364 Operating Systems3CS 264 Dotabase Management Lab-MATH 127 Logic & Axiomatics3MATH 127 Logic & Axiomatics3MATH 235 Discrete Mathematics3Collaboration with the University of Notre Dame and with WashingtonUniversity in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame orWashington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Science from King's College and a B.S. in Computer Science from King's College and a B.S.	CS 120 Object Oriented Software Development	3				
CS 232L Data Structures Lab1CS 232L Data Structures Lab1CS 233L Advanced Data Structures3CS 233L Advvanced Data Structures Lab1CS 256L Database Management3CS 256L Database Management Lab1CS 270 Computer Organization3CS 270L Computer Organization Lab1CS 315 Programming Paradigms3CS 364 Operating Systems3CS 480 Software Engineering-CS Elective (5 courses total)-MATH 127 Logic & Axiomatics3MATH 235 Discrete Mathematics3Total Physics Major CreditsS5General InformationThe 3+2 Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame or Washington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more	CS 120L Object Oriented Software Develop. Lab	1				
CS 233 Advanced Data Structures3CS 233 L Advvanced Data Structures Lab1CS 231 L Advvanced Data Structures Lab1CS 256 Database Management3CS 256 Database Management Lab1CS 270 Computer Organization3CS 270 Computer Organization Lab1CS 315 Programming Paradigms3CS 364 Operating Systems3CS 480 Software Engineering-CS Elective (5 courses total)-MATH 127 Logic & Axiomatics3MATH 235 Discrete Mathematics3Total Physics Major Credits35General InformationThe 3+2 Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame or Washington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more	CS 232 Data Structures	3				
CS 233L Advvanced Data Structures Lab 1   CS 235L Advvanced Data Structures Lab 1   CS 256L Database Management 3   CS 256L Database Management Lab 1   CS 270 Computer Organization 3   CS 270L Computer Organization Lab 1   CS 315 Programming Paradigms 3   CS 364 Operating Systems 3   CS 480 Software Engineering -   CS 150 Forgramming Paradigms 3   CS 264 Operating Systems 3   MATH 127 Logic & Axiomatics 3   MATH 127 Logic & Axiomatics 3   MATH 235 Discrete Mathematics 3   Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CO	CS 232L Data Structures Lab	1				
CS256 Database Management 3   CS 256L Database Management Lab 1   CS 270 Computer Organization 3   CS 270L Computer Organization Lab 1   CS 315 Programming Paradigms 3   CS 364 Operating Systems 3   CS 286L Database Management 3   CS 315 Programming Paradigms 3   CS 364 Operating Systems 3   CS 286L Operating Systems 3   CS 286 Software Engineering -   CS Elective (5 courses total) -   MATH 127 Logic & Axiomatics 3   MATH 235 Discrete Mathematics 3   Ceneral Information 3   The 3+2 Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame or   Washington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more	CS 233 Advanced Data Structures	3				
CS 256L Database Management Lab 1   CS 270 Computer Organization 3   CS 270L Computer Organization Lab 1   CS 315 Programming Paradigms 3   CS 364 Operating Systems 3   CS 480 Software Engineering -   CS Elective (5 courses total) -   MATH 127 Logic & Axiomatics 3   MATH 235 Discrete Mathematics 3   Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame or Washington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more	CS 233L Advvanced Data Structures Lab	1				
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MATH 127 Logic & Axiomatics 3   MATH 235 Discrete Mathematics 3   Total Physics Major Credits 35   General Information 35   The 3+2 Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame or Washington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more	CS 480 Software Engineering	-				
MATH 235 Discrete Mathematics 3   Total Physics Major Credits 35   General Information 35   The 3+2 Computer Science-Computer Engineering Dual Degree Program is a collaboration with the University of Notre Dame and with Washington University in St. Louis. Students will spend three years at King's College taking mathematics, science, engineering, and general education CORE courses. Eligible students will then transfer to Notre Dame or Washington University for two years to complete engineering courses in their chosen field. Upon successful completion of the program, students will receive both a B.S. in Computer Science from King's College and a B.S. in Computer Engineering from either Notre Dame or WashU. (For more	CS Elective (5 courses total)	-				
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in Computer Engineering from either Notre Dame or WashU. (For more						

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#### Notes:

CS 480 required by King's is satisfied with CSE 40522 CPEG Capstone Design at Notre Dame or CSE 462 Computer System Design at WashU The (5) CS Electives required by King's are satisfied by any other 3<sup>rd</sup> or 4<sup>th</sup> year level Computer Engineering courses taken at Notre Dame or WashU

## **Computer Science – Computer Engineering Track**

3+2 Dual Degree Engineering Program

### **Suggested Sequence**

A suggested course sequence of degree requirements is listed below. Refer to the college catalog for course titles, descriptions, and prerequisites. Always consult your Academic Advisor when planning and scheduling your classes.

King's College						
Fall 2020	Credits	Spring 2021	Credits			
CS 112 Intro. to Programming (fall only)	3	CS 120 OO Software Development (spring only)	3			
PHYS 113 <sup>2,CR</sup> Physics for Scientists & Engineers I	3	CS 120L OO Software Develop. Lab (spring only)	1			
PHYS 113L Physics for Sci. & Eng. I Lab	1	PHYS 114 <sup>PR</sup> Physics for Scientists & Engineers II	3			
MATH 129 Calculus I	4	PHYS 114L <sup>PR</sup> Physics for Sci. & Eng. II Lab	1			
Core Course <sup>1</sup>	3	ENGR 150 Engineering Seminar	2			
HCE 101 Holy Cross Experience	1	MATH 130 <sup>PR</sup> Calculus II	4			
		Core Course <sup>1</sup>	3			
	15		17			
Fall 2021	Credits	Spring 2022	Credit			
CS 232 Data Structures	3	CS 233 Advanced Data Structures	3			
CS 232L Data Structures Lab	1	CS 233L Advanced Data Structures Lab	1			
CS 256 Database Management Systems	3	CS 270 Computer Organization	3			
CS 256L Database Management Systems Lab	1	CS 270L Computer Organization Lab	1			
MATH 127 Logic & Axiomatics	3	MATH 250 Linear Algebra	4			
MATH 231 <sup>PR</sup> Calculus III	4	ENGR 250 System Design & Analysis	3			
Core Course <sup>1</sup>	3	ENGR 250L Syst. Design & Analysis Lab	1			
	18*		16			
Fall 2022	Credits	Spring 2023	Credi			
CS 364 Operating Systems	3	CS 315 Programming Paradigms	3			
MATH 235 Discrete Mathematics	3	CHEM 114 Gen. Chem. II	3			
MATH 361 Probability & Statistics I	3	CHEM 114L Gen. Chem. II Lab	1			
CHEM 113 Gen. Chem. I	3	PHYS 233 Electronics I	3			
CHEM 113L Gen. Chem. I Lab	1	PHYS 233L Electronics I Lab	1			
Core Course <sup>1</sup>	3	Core Course <sup>1</sup>	3			
		Core Course <sup>1</sup>	3			
	16		17			

### Total Credits earned at King's College = 99

Students apply for transfer admission to the University of Notre Dame or Washington University in St. Louis after completion of the Fall semester of their 3<sup>rd</sup> year. Students must have satisfied King's College academic guidelines, as well as the following general criteria:

- For Admission to the University of Notre Dame
  - $\circ$  Cumulative grade-point average (GPA) of at least 3.6 on a 4.0 scale.
  - o Cumulative technical grade-point average of at least 3.6 on a 4.0 scale (all math, science and engineering courses)
  - $\circ$  GPA must be maintained through Spring Semester of Year 3
  - All grades that transfer to Notre Dame must be a "B" or higher, and grades for all courses taken at King's must be a C or higher
  - o At least 60 credit-hours of work that can be transferred to satisfy Notre Dame engineering and general education degree requirements
- For Admission to Washington University in St. Louis
  - $\circ$  Cumulative grade-point average (GPA) of at least 3.25 on a 4.0 scale.
  - o Cumulative technical grade-point average of at least 3.25 on a 4.0 scale (all math, science and engineering courses)
  - $\circ$  GPA must be maintained through Spring Semester of Year 3
  - $\circ$  All grades that transfer to Washington University must be a "C" or higher
- o At least 60 credit-hours of work that can be transferred to satisfy WashU engineering and general education degree requirements
- The specific admission criteria for each school will be confirmed by the 3+2 Program Director

#### Notes:

- CS 112 and 120 satisfy the Notre Dame requirement for CSE 20311 Fund of Computing
- CS 270/L satisfies the Notre Dame requirement for CSE 20221 Logic Design
- CS 232/L and CS 233/L satisfy the Notre Dame requirement for CSE 20312 Data Structures
- CS 364 satisfies the Notre Dame Requirement for CSE 30341 Operating Systems
- CS 315 satisfies one of the Notre Dame CSE Electives

PHYS 233/L satisfies the Notre Dame requirement for EE 20224 Intro to Electric Circuit Analysis and EE 20225 Intro to Electrical Engineering MATH 235 satisfies the Notre Dame requirement for CSE 20110 Discrete Mathematics and CSE 240 Logic and Discrete Mathematics at WashU MATH 361 satisfies the Notre Dame requirement for ACMS 30440 Probability & Statistics and ESE 326 Probability and Statistics for Eng at WashU \*Students are encouraged to take summer courses to relieve the course load pressure during this semester.

<sup>1</sup>Choose one course from each of the Core Requirements listed on the reverse side.

<sup>2</sup> Course may satisfy both a Major and a Core requirement. CHEM 113 and PHYS 113 will satisfy the Scientific Endeavor and Science in Context Core requirements. MATH 129 will satisfy the Quantitative Reasoning Core requirement.

PR Course has a prerequisite – check college catalog.

<sup>CR</sup> Course has a co-requisite – check college catalog.