

BS in Computer Science - Software Entrepreneurship Applied Option

SAMPLE CURRICULUM 2024-2025

FIRST YEAR

SECOND YEAR

FALL	WINTER	SPRING	FALL	WINTER	SPRING
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ENGR 100 (3 cr) The OSU Engineering Student </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> MTH 251 (4 cr) Differential Calculus <i>(Taught Fall, Winter & Summer)</i> Preq: MTH 112Z </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> WR 121Z (4 cr) Composition I <i>(Taught Fall, Winter, Spring)</i> </div> <div style="border: 1px solid black; padding: 5px;"> PERSPECTIVE Physical Science <i>(see bacc core guide)</i> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ENGR 102 (3 cr) Design Engineering and Problem Solving </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> MTH 252 (4 cr) Integral Calculus <i>(Taught Winter, Spring & Summer)</i> Preq: MTH 251 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> WR 214 (3 cr) Writing in Business <i>(TBD)</i> Preq: WR 121Z </div> <div style="border: 1px solid black; padding: 5px;"> PERSPECTIVE Social Processes & Institutions ECON 201 (4 cr) Intro to Microeconomics <i>(Taught Fall, Winter)</i> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> ENGR 103 (3 cr) Engineering Computation and Algorithmic Thinking Preq: ENGR 102 & MTH 112Z </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> MTH 231 (4 cr) Discrete Math Preq: MTH 111Z </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> WR 227Z (4 cr) Technical Writing <i>(Taught Winter, Spring & Summer)</i> Preq: WR 121Z </div> <div style="border: 1px solid black; padding: 5px;"> COMM 111Z (4 cr) Public Speaking <i>(Taught Fall, Winter)</i> or COMM 114 (3 cr) Argument & Critical Discourse <i>(Taught Spring)</i> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CS 162 (4 cr) Intro to Computer Science II Preq: ENGR 103 or CS 161 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; background: repeating-linear-gradient(45deg, transparent, transparent 2px, gray 2px, gray 4px);"> Applied Option Elective BA 260 (4 cr) Foundations of the Entrepreneurial Mindset <i>(Taught Fall, Spring)</i> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CS 391 (3 cr) Social and Ethical Issues in CS SYNTHESIS Science, Technology & Society Preq: CS 101 or computer literacy </div> <div style="border: 1px solid black; padding: 5px;"> HHS 231 (2 cr) Lifetime Fitness for Health <i>(Taught Fall, Winter, Spring)</i> & HHS 241 or PAC (1 cr) <i>(All)</i> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CS 261 (4 cr) Data Structures Preq: CS 162 & MTH 231 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CS 340 (4 cr) Introduction to Databases Preq: CS 290 <i>(request pre-req override)</i> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> PERSPECTIVE Literature & Arts <i>(see bacc core guide)</i> </div> <div style="border: 1px solid black; padding: 5px;"> PERSPECTIVE Additional Science (Physical or Biological) <i>(see bacc core guide)</i> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CS 325 (4 cr) Analysis of Algorithms Preq: CS 261 & MTH 231 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CS 290 (4 cr) Web Development Preq: CS 162 </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; background: repeating-linear-gradient(-45deg, transparent, transparent 2px, gray 2px, gray 4px);"> Restricted Elective ST 314 (3 cr) Intro to Statistics for Engineers <i>(Taught Spring)</i> Preq: MTH 252 </div> <div style="border: 1px solid black; padding: 5px;"> PERSPECTIVE Biological Science <i>(see bacc core guide)</i> </div>

NOTES: Shaded courses are part of the CS Applied Option's requirements and electives.

MTH courses not required for CS major but are MTH Course pre-reqs.

BS in Computer Science – Software Entrepreneurship Applied Option

SAMPLE CURRICULUM 2024-2025

THIRD YEAR

FOURTH YEAR

THIRD YEAR			FOURTH YEAR		
FALL	WINTER	SPRING	FALL	WINTER	SPRING
<p>CS 361 (4 cr) Software Engineering I</p> <p>Preq: CS 261</p>	<p>CS 362 (4 cr) Software Engineering II</p> <p>Preq: CS 261</p>	<p>Restricted Elective CS 331 (4 cr) Intro to Artificial Intelligence</p> <p>Preq: CS 325</p>	<p>CS 461 (3 cr) Senior Software Engineering Project (WIC)</p> <p>Preq: CS 361, CS 325, & CS 362. Co-req: CS 466</p>	<p>CS 462 (3 cr) Senior Software Engineering Project (WIC)</p> <p>Preq: CS 362, CS 461</p>	<p>CS 463 (2 cr) Senior Software Engineering Project</p> <p>Preq: CS 462</p>
<p>CS 271 (4 cr) Computer Architecture & Assembly Language</p> <p>Preq: ENGR 103 or CS 161</p>	<p>CS 374 (4 cr) Operating Systems I</p> <p>Preq: CS 261, & CS 271</p>	<p>CS 474 (4cr) Operating Systems II</p> <p>Preq: CS 344 & CS 271</p>	<p>CS 372 (4 cr) Introduction to Computer Networks</p> <p>Preq: CS 261, & CS 271</p>	<p>Applied Option Elective CS 466 (4 cr) Web-based Start-up Project</p> <p>Preq: Co-requisite: CS 461</p>	<p>Applied Option Elective SE 467 (4 cr) Business of Software II</p> <p>Preq: TBD</p>
<p>CS 352 (4 cr) Introduction to Usability Engineering</p> <p>Preq: ENGR 103 or CS 161</p>	<p>CS 381 (4 cr) Programming Language Fundamentals</p> <p>Preq: CS 261 & MTH 231</p>	<p>Applied Option Elective BA 315 (4 cr) Accounting for Decision Making</p> <p>Preq: Junior Standing</p>	<p>Restricted Elective CS 475 (4 cr) Intro to Parallel Programming</p> <p>Preq: CS 261</p>	<p>Applied Option Elective CS 492 (4 cr) Mobile Software Development</p> <p>Preq: CS 344 or CS 374</p>	<p>Applied Option Elective CS 493 (4 cr) Cloud Application Development</p> <p>Preq: CS 290, CS 340, & CS 372</p>
<p>Applied Option Elective BA 252 (4 cr) Managing Individual & Team Performance <i>(Taught Fall & Spring)</i> or BA 251 online</p> <p>Preq: COMM 111Z or 114, & Sophomore Standing</p>	<p>PERSPECTIVE Western Culture <i>(see bacc core guide)</i></p>	<p>PERSPECTIVE Difference, Power & Discrimination <i>(see bacc core guide)</i></p>	<p>PERSPECTIVE Cultural Diversity <i>(see bacc core guide)</i></p>	<p>SYNTHESIS Contemporary Global Issues <i>(see bacc core guide)</i></p>	<p>Applied Option Elective BA 360 (4 cr) Intro. to Financial Management <i>(Taught Fall & Spring)</i></p> <p>Preq: BA 315, ECON 201</p>

- NOTES:**
- Courses may not be offered in the term shown in future years. Students should check with their advisor about upcoming changes.
 - Restricted Electives (RE): Required to complete two upper division restricted electives. Students should check with their advisor on upper division restricted elective course offerings.