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the mathematics b s gives a much deeper look at the subject within it there are two different options a b s i program focusing on theoretical math and a b s ii program concerned with mathematical applications get your degree in mathematics as a student in the b s in mathematics program you ll take classes in calculus linear algebra modern algebra real analysis and mathematical modeling you ll also choose a specialization that works for your career goals mathematics bs this program provides exciting opportunities for students interested in mathematics students are encouraged to select an optional concentration in actuarial mathematics actm applied mathematics amt data science dsci or mathematical statistics mths students who do not select a concentration study traditional note that at most one course from each of the following groupings may be used to fulfill the minimum course and credit requirement i e seven courses and at least 21 credits intro linear algebra math 320 math 340 math 341 math 375 intro differential equations math 319 math 320 or math 376 and intro probability math stat 309 the bs degree program in mathematics offers a deep grounding in both theoretical and applied mathematical concepts classes cover a broad spectrum of advanced mathematical topics including differential equations modeling numerical analysis number theory cryptography and real analysis the department offers a b s in mathematics within this program there are seven tracks besides the standard track there are six specializations or concentrations in mathematical biology mathematical finance data science applied and computational mathematics mathematics for education and mathematics for education secondary teaching mathematics mathematics bs request information apply college of arts and sciences programs and degrees majors mathematics bs why study mathematics mathematics mathematical sciences include the

disciplines of pure mathematics applied mathematics and statistics mathematics bachelor of science on campus mathematics forms the backbone of many scientific fields it provides the theory and methods essential to understanding the fundamentals of such areas as physics engineering and computer science the mathematics b s is recommended for those students who seek an education that involves not only foundational computational skills but also rigorous explanations of how mathematics works a well rounded education in mathematics requires an introduction to proof class and a balance of advanced coursework in algebra analysis and geometry calculus i included in university core 2 3 math 2414 calculus ii included in university core 2 1 math 3311 linear algebra 3 math 3313 foundations of number theory 3 math 2415 calculus iii 4 cosc 1330 programming for scientists engineers and mathematicians 4 3 math 3315 differential equations 3 mathematics track requirements overview admission degree requirements track requirements flight plan admission to the bs in mathematics requires enrollment in a mathematics course beyond math 205 a minimum cumulative grade point average of 2 0 and a minimum grade point average of 2 0 on all courses in the major mathematics major b s overview learning outcomes requirements sample plan opportunities other programs contacts mathematics has always been a fundamental component of human thought and culture and the growth of technology in recent times has further increased its importance the department of mathematics offers an undergraduate major in mathematics leading to the bachelor of arts ba degree the program provides an excellent preparation for advanced degrees in math physical sciences economics and industrial engineering as well as graduate study in business education law and medicine 2024 2025 edition mathematics bs overview program requirements the curriculum in the bachelor of science in mathematics explores mathematical problems and their interplay with science and engineering all students majoring in mathematics start with a core of five required courses including calculus and linear algebra the b s in mathematics is designed to provide a strong grounding in mathematics for students considering graduate school in mathematics or a closely allied

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field math home program of study the comprehensive program is designed to help you gain the computational skills needed to properly assess real life challenges through mathematical theory equations and computer science the mathematics major has two tracks the bachelor of arts ba and the bachelor of science bs many students ask which degree they should pursue for the mathematics major at uf the difference in these degrees is entirely in the selection of mathematics courses taken the b s in mathematics at iit bombay is designed to build a strong foundation in the initial semesters while encouraging students to pursue more targeted interests in the second half of the programme through advanced elective courses within the department of mathematics math 223 calculus iii 4 credits math 247 linear algebra i 4 credits math 290 foundations of mathematics 4 credits math 316 intermediate analysis 3 credits math 332 college geometry 4 credits math 345 abstract algebra i 4 credits math 354 concepts of probability statistics 4 credits math 375 introduction to discrete mathematics 4 credits

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the mathematics b s gives a much deeper look at the subject within it there are two different options a b s i program focusing on theoretical math and a b s ii program concerned with mathematical applications

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get your degree in mathematics as a student in the b s in mathematics program you ll take classes in calculus linear algebra modern algebra real analysis and mathematical modeling you ll also choose a specialization that works for your career goals

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mathematics bs this program provides exciting opportunities for students interested in mathematics students are encouraged to select an optional concentration in actuarial mathematics actm applied mathematics amt data science dsci or mathematical statistics mths students who do not select a concentration study traditional

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note that at most one course from each of the following

groupings may be used to fulfill the minimum course and credit requirement i e seven courses and at least 21 credits intro linear algebra math 320 math 340 math 341 math 375 intro differential equations math 319 math 320 or math 376 and intro probability math stat 309

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the bs degree program in mathematics offers a deep grounding in both theoretical and applied mathematical concepts classes cover a broad spectrum of advanced mathematical topics including differential equations modeling numerical analysis number theory cryptography and real analysis

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the department offers a b s in mathematics within this program there are seven tracks besides the standard track there are six specializations or concentrations in mathematical biology mathematical finance data science applied and computational mathematics mathematics for education and mathematics for education secondary teaching

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the mathematics b s is recommended for those students who seek an education that involves not only foundational computational skills but also rigorous explanations of how mathematics works a well rounded education in mathematics requires an introduction to proof class and a balance of advanced coursework in algebra analysis and geometry

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calculus ii included in university core 2 1 math 3311
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3 math 2415 calculus iii 4 cosc 1330 programming for
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mathematics major b s overview learning outcomes requirements sample plan opportunities other programs contacts mathematics has always been a fundamental component of human thought and culture and the growth of technology in recent times has further increased its importance

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the department of mathematics offers an undergraduate major in mathematics leading to the bachelor of arts ba degree the program provides an excellent preparation for advanced degrees in math physical sciences economics and industrial engineering as well as graduate study in business education law and medicine

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the mathematics major has two tracks the bachelor of arts ba and the bachelor of science bs many students ask which degree they should pursue for the mathematics major at uf the difference in these degrees is entirely in the selection of mathematics courses taken

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