



Benha University
Faculty of Science



Mathematics programs



Benha University
Faculty of Science



BSc. Mathematics programs



Benha University
Faculty of Science



Mathematics programs

| University Requirements | | | | | | First Level |
|---|---------------------------------|-------------|------|--------------|--------------|------------------------|
| University Compulsory Courses: 4 Credit Hours | | | | | | |
| First level | | | | | | |
| Course Code | Course Title | Theoretical | T/ P | Credit Hours | Prerequisite | |
| Uni 100 | Scientific Thinking | 2 | -/- | 2 | - | |
| Uni 115 | English Language (1) | 2 | -/- | | - | |
| Uni 151 | Human Rights and Anticorruption | 1 | -/- | 1 | - | |
| University Requirements | | | | | | |
| University Elective Courses: 4 Credit Hours | | | | | | |
| First level | | | | | | |
| Course Code | Course Title | Theoretical | T/ P | Credit Hours | Prerequisite | |
| Uni 105 | Information Technology | 2 | -/- | 2 | - | |
| Uni 142 | History of Science | 2 | -/- | 2 | - | |
| Uni 152 | Healthy Nutrition | 2 | -/- | 2 | - | |
| Faculty Requirements | | | | | | First level Natural |
| Faculty Compulsory Courses: 88 Credit Hours | | | | | | |
| First level | | | | | | |
| Course Code | Course Title | Theoretical | T/ P | Credit Hours | Prerequisite | |
| Bio 101 | Biology (1) | 1 | -/2 | 2 | - | |

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| Chm 100 | General Chemistry (1) | 2 | 2/- | 3 | - | |
|--|--------------------------------------|-------------|-------|--------------|--------------|---------------------|
| Com 101 | Introduction to Computer Science | 1 | -/2 | 2 | - | |
| Mat 101 | Algebra and Geometry | 1 | 2/- | 2 | - | |
| Phy 101 | Heat and Properties of Matter | 2 | 2/- | 3 | - | |
| Bio 102 | Biology (2) | 1 | -/2 | 2 | - | |
| Chm 105 | General Chemistry (2) | 2 | 2/- | 3 | - | |
| Com 102 | Introduction to Computer Programming | 1 | 2/- | 2 | - | |
| Mat 102 | Statistics | 1 | 2/- | 2 | - | |
| Phy 102 | Optics, Electricity and Magnetism | 2 | 2/- | 3 | - | |
| Mat 103 | Differentiation and Integration | 1 | 2/- | 2 | - | |
| Mat 104 | Dynamics | 1 | 2/- | 2 | - | |
| Faculty Compulsory Courses: 60 Credit Hours | | | | | | |
| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | |
| Sta 200 | Probability Theory (1) | 1 | 2/- | 2 | Mat 103 | Mathematics program |

Mathematics programs

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|---------|-------------------------------------|---|-----|---|---------|
| Mat 201 | Ordinary Differential Equations (1) | 1 | 2/- | 2 | Mat 102 |
| Mat 202 | Discrete Mathematics | 1 | 2/- | 2 | Mat 102 |
| Mat 203 | Linear Algebra | 2 | 2/- | 3 | Mat 103 |
| Mat 204 | Numerical Analysis (1) | 1 | 2/- | 2 | Mat 101 |
| Mat 205 | Real Analysis (1) | 1 | 2/- | 2 | Mat 101 |
| Mat 206 | Space Geometry | 1 | 2/- | 2 | Mat 103 |
| Mat 211 | Static and Vector Analysis | 2 | 2/- | 3 | Mat 104 |
| Mat 212 | Mechanics | 2 | 2/- | 3 | Mat 104 |
| Mat 301 | Ordinary Differential Equations (2) | 1 | 2/- | 2 | Mat 201 |
| Mat 302 | Special Function | 1 | 2/- | 2 | Mat 102 |
| Mat 303 | Abstract Algebra (1) | 2 | 2/- | 3 | Mat 203 |
| Mat 304 | Partial Differential Equations | 1 | 2/- | 2 | Mat 102 |
| Mat 305 | Operation Research (1) | 1 | 2/- | 2 | Mat 102 |

Mathematics programs

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|--|-----------------------|---|-----|---|---------|
| Mat 307 | Functional Analysis | 2 | 2/- | 3 | Mat 202 |
| Sta 308 | Time Series (2) | 1 | 2/- | 2 | Mat 102 |
| Mat 312 | Analytical Mechanics | 1 | 2/- | 2 | Mat 212 |
| Mat 314 | Fluid Mechanics (1) | 1 | 2/- | 2 | Mat 212 |
| Mat 401 | Integral Equations | 1 | 2/- | 2 | Mat 102 |
| Mat 402 | Complex Analysis | 2 | 2/- | 3 | Mat 307 |
| Mat 403 | Measure Theory | 2 | 2/- | 3 | Mat 102 |
| Mat 404 | Quantum Mechanics | 2 | -/- | 2 | Mat 102 |
| Mat 405 | Topology | 3 | -/- | 3 | Mat 102 |
| Mat 406 | Differential Geometry | 2 | -/- | 2 | Mat 405 |
| Mat 408 | Abstract Algebra (2) | 2 | -/- | 2 | Mat 303 |
| Mat 411 | Electrodynamics | 2 | -/- | 2 | Mat 102 |
| Faculty Elective Courses: 28 Credit Hours | | | | | |

Mathematics programs

| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | Mathematics program |
|-------------|---------------------------------|-------------|-------|--------------|--------------|---------------------|
| Com 203 | Logic Design (2) | 1 | 2/- | 2 | Com 102 | |
| Sta 203 | Principle of Statistics | 1 | 2/- | 2 | Mat 101 | |
| Sta 205 | Statistical Inference (1) | 2 | 2/- | 3 | Sta 203 | |
| Com 220 | Data Structure | 2 | -/2 | 3 | Com 102 | |
| Com 221 | Object-oriented Programming | 2 | 2/- | 3 | Com 101 | |
| Com 222 | Advanced Programming | 2 | -/2 | 3 | Com 102 | |
| Phy 224 | Thermodynamics | 2 | -/- | 2 | Phy 101 | |
| Phy 245 | Introduction to Physical Optics | 1 | -/3 | 2 | Phy 101 | |
| Mat 306 | Operation Research (2) | 1 | 2/- | 2 | Mat 305 | |
| Mat 308 | Mathematical Modeling | 1 | 2/- | 2 | Mat 204 | |
| Mat 309 | Mathematical Methods | 1 | 2/- | 2 | - | |
| Mat 310 | Mathematical Logic | 1 | 2/- | 2 | Mat 104 | |

Mathematics programs

| Mat 311 | Number Theory | 1 | 2/- | 2 | Mat 104 | |
|--|--|-------------|--------|--------------|--------------|---------------------|
| Mat 313 | Dynamic of Rigid Body | 1 | 2/- | 2 | Mat 102 | |
| Mat 407 | Mathmatical Applications in Computer Science | 2 | -/2 | 3 | Mat 204 | |
| Mat 409 | Real Analysis (2) | 2 | 2/- | 3 | Mat 205 | |
| Mat 410 | Elasticity theory | 2 | -/- | 2 | Mat 102 | |
| Mat 412 | Perturbation theory | 2 | -/- | 2 | Mat 312 | |
| Mat 413 | Fluid Mechanics (2) | 2 | 2/- | 3 | Mat 314 | |
| Mat 414 | Relativity Theory | 2 | -/- | 2 | Mat 307 | |
| Mat 416 | Numerical Analysis (2) | 1 | 2/- | 2 | Mat 204 | |
| Faculty Free Elective Courses: 6 Credit Hours | | | | | | |
| Course Code | Course Title | Theoretical | Pract. | Credit Hours | Prerequisite | Mathematics program |
| Zoo 234 | Introduction to Biotechnology | 2 | -/- | 2 | - | |
| Phy 235 | Renewable Energy | 2 | -/- | 2 | - | |
| Phy 240 | Principles of Modern Physics | 1 | -/3 | 2 | - | |

Mathematics programs

| Phy 250 | Principles of Alternating Currents and Electromagnetism | 2 | -/- | 2 | - | | |
|--|---|-------------|------------|--------------|----------------|--|-------------------------|
| Geo 260 | Petroleum Reservoir Fluids | 1 | -/3 | 2 | - | | |
| Eco 290 | Biodiversity | 1 | -/3 | 2 | - | | |
| Faculty Graduation requirements: 6 Credit Hours | | | | | | | |
| Mat 330 | Applied and Field Training | - | -/- | 3 | -- | | |
| Mat 400 | Research and Essay | 3 | -/- | 3 | -- | | |
| Faculty Compulsory Courses: 60 Credit Hours | | | | | | | |
| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | | |
| Mat 202 | Discrete Mathematics | 1 | 2/- | 2 | Mat 102 | | Computer Science |
| Mat 203 | Linear Algebra | 2 | 2/- | 3 | Mat 103 | | |
| Sta 203 | Principles of Statistics | 1 | 2/- | 2 | Mat 101 | | |
| Mat 204 | Numerical Analysis (1) | 1 | 2/- | 2 | Mat 101 | | |
| Com 220 | Data Structure | 2 | -/2 | 3 | Com 102 | | |
| Com 221 | Object-oriented Programming | 2 | 2/- | 3 | Com 101 | | |
| Com 222 | Advanced Programming | 2 | -/2 | 3 | Com 102 | | |
| Com 223 | Logic Design (1) | 1 | 2/- | 2 | Com 102 | | |

Mathematics programs

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|--|-------------------------------------|---|------|---|---------|
| Mat 305 | Operation Research (1) | 1 | 2/- | 2 | Mat 102 |
| Mat 311 | Number Theory | 1 | 2/- | 2 | Mat 104 |
| Com 320 | Artificial Intelligence | 2 | 2/- | 3 | Com 321 |
| Com 321 | Algorithms Design and Analysis | 2 | 2/- | 3 | Com 221 |
| Com 322 | Scientific Computation (1) | 2 | 2/- | 3 | Com 222 |
| Com 323 | Database Management Systems | 2 | 2/- | 3 | Com 102 |
| Com 324 | Computer Applications in Statistics | 1 | 2/- | 2 | Sta 203 |
| Com 326 | Modeling and Simulation | 1 | 2/- | 2 | Com 221 |
| Com 420 | Computer Graphics | 2 | -/2 | 3 | Com 322 |
| Com 421 | Data Mining | 2 | - /2 | 3 | Com 220 |
| Com 422 | Machine Learning | 2 | -/2 | 3 | Com 220 |
| Com 423 | Computer Security | 2 | 2/- | 3 | Com 326 |
| Com 424 | Compiler Theory | 2 | -/- | 2 | Com 321 |
| Com 425 | Theory of Computation | 1 | 2/- | 2 | Com 321 |
| Com 426 | Systems Analysis | 1 | 2/- | 2 | Com 321 |
| Com 427 | Introduction to Bioinformatics | 1 | 2/- | 2 | Com 222 |
| Faculty Elective Courses: 28 Credit Hours | | | | | |



Mathematics programs

| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | Computer Science |
|-------------|---|-------------|-------|--------------|--------------|------------------|
| Sta 200 | Probability Theory (1) | 1 | 2/- | 2 | Mat103 | |
| Mat 201 | Ordinary Differential Equations (1) | 1 | 2/- | 2 | Mat 102 | |
| Sta 202 | Statistical Theory (1) | 1 | 2/- | 2 | Mat 203 | |
| Mat 205 | Real Analysis (1) | 1 | 2/- | 2 | Mat 102 | |
| Sta 204 | Mathematical Statistics | 1 | 2/- | 2 | Sta 200 | |
| Com 224 | Operating Systems | 1 | 2/- | 2 | - | |
| Mat 306 | Operation Research (2) | 1 | 2/- | 2 | Mat 102 | |
| Mat 310 | Mathematical Logic | 1 | 2/- | 2 | Mat 104 | |
| Mat 313 | Dynamic of Rigid body | 1 | 2/- | 2 | Mat 102 | |
| Com 325 | Web Programming | 1 | 2/- | 2 | Com 220 | |
| Com 327 | Selected Topics in Computer Science (1) | 1 | 2/- | 2 | - | |
| Com 328 | Computer Network | 1 | 2/- | 2 | Com 221 | |
| Mat 401 | Integral Equations | 1 | 2/- | 2 | - | |
| Mat 405 | Topology | 3 | -/- | 3 | - | |
| Mat 410 | Elasticity theory | 2 | -/- | 2 | Mat 313 | |



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| Mat 411 | Electrodynamics | 2 | -/- | 2 | - | |
|--|---|-------------|--------|--------------|--------------|-------------------------|
| Mat 412 | Perturbation Theory | 2 | -/- | 2 | Mat 312 | |
| Mat 414 | Relativity Theory | 2 | -/- | 2 | - | |
| Mat 416 | Numerical Analysis (2) | 1 | 2/- | 2 | Mat 204 | |
| Com 429 | Scientific Computation (2) | 2 | 2/- | 3 | Com 102 | |
| Com 430 | Cryptography | 2 | 2/- | 3 | Com 423 | |
| Faculty Free Elective Courses: 6 Credit Hours | | | | | | |
| Course Code | Course Title | Theoretical | Pract. | Credit Hours | Prerequisite | Computer Science |
| Zoo 234 | Introduction to Biotechnology | 2 | -/- | 2 | - | |
| Phy 235 | Renewable Energy | 2 | -/- | 2 | - | |
| Phy 240 | Principles of Modern Physics | 1 | -/3 | 2 | - | |
| Phy 250 | Principles of Alternating Currents and Electromagnetism | 2 | -/- | 2 | - | |
| Gph 253 | Marine Geophysical Exploration | 1 | -/3 | 2 | - | |
| Geo 260 | Petroleum Reservoir Fluids | 1 | -/3 | 2 | - | |
| Faculty Graduation requirements: 6 Credit Hours | | | | | | |
| Com 330 | Applied and Field Training | - | -/- | 3 | - | |
| Com 434 | Research and Essay | 3 | -/- | 3 | - | |



Mathematics programs

| Faculty Compulsory Courses: 60 Credit Hours | | | | | | |
|---|---------------------------|-------------|-------|--------------|--------------|-------------------------|
| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | |
| Sta 200 | Probability Theory (1) | 1 | 2/- | 2 | Mat 103 | Mathematical statistics |
| Mat 202 | Discrete Mathematics | 1 | 2/- | 2 | Mat 102 | |
| Sta 202 | Statistical Theory (1) | 1 | 2/- | 2 | Sta 203 | |
| Sta 203 | Principles of Statistics | 1 | 2/- | 2 | Mat 101 | |
| Sta 204 | Mathematical Statistics | 1 | 2/- | 2 | Sta 200 | |
| Sta 205 | Statistical Inference (1) | 2 | 2/- | 3 | Sta 203 | |
| Sta 206 | Biostatistics | 2 | 2/- | 3 | Sta 203 | |
| Com 203 | Logic Design (2) | 1 | 2/- | 2 | Com 102 | |
| Sta 301 | Stochastic Processes (1) | 2 | 2/- | 3 | Sta 200 | |
| Mat 302 | Special Function | 1 | 2/- | 2 | Mat 102 | |
| Sta 302 | Nonparametric Analysis | 2 | 2/- | 3 | Sta 203 | |



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|--|-----------------------------|---|------|---|---------|
| Sta 303 | Probability Theory (2) | 2 | 2/- | 3 | Sta 200 |
| Sta 304 | Statistical Theory (2) | 2 | 2/- | 3 | Sta 202 |
| Mat 305 | Operation Research (1) | 1 | 2/- | 2 | Mat 102 |
| Sta 305 | Time Series (1) | 2 | 2/- | 3 | Mat 102 |
| Sta 306 | Experimental Design | 2 | 2/- | 3 | Sta 303 |
| Mat 405 | Topology | 3 | -/- | 3 | Mat 102 |
| Sta 401 | Multivariate Analysis | 1 | 2/- | 2 | Sta 203 |
| Sta 402 | Renewal Theory | 2 | 2/- | 3 | Sta 303 |
| Sta 403 | Statistical Decision Theory | 2 | 2 /- | 3 | Sta 203 |
| Sta 404 | Baysian Statistics | 2 | 2/- | 3 | Sta 203 |
| Sta 406 | Queues Theory | 2 | 2/- | 3 | Sta 303 |
| Com 491 | Bioinformatics | 2 | 2/- | 3 | - |
| Faculty Elective Courses: 28 Credit Hours | | | | | |



Mathematics programs

| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | Mathematical statistics |
|-------------|-------------------------------------|-------------|-------|--------------|--------------|-------------------------|
| Mat 201 | Ordinary Differential Equations (1) | 1 | 2/- | 2 | Mat 102 | |
| Mat 205 | Real Analysis | 1 | 2/- | 2 | Mat 102 | |
| Sta 209 | Regression Analysis | 1 | 2/- | 2 | Mat 103 | |
| Mat 212 | Mechanics | 2 | 2/- | 3 | Mat 104 | |
| Com 220 | Data Structure | 2 | -/2 | 3 | Com 102 | |
| Com 222 | Advanced Programming | 2 | -/2 | 3 | Com 102 | |
| Com 223 | Logic Design (1) | 1 | 2/- | 2 | Com 102 | |
| Mat 304 | Partial Differential Equations | 1 | 2/- | 2 | Mat 102 | |
| Mat 306 | Operation Research (2) | 1 | 2/- | 2 | Mat 102 | |
| Sta 308 | Time Series (2) | 1 | 2/- | 2 | Sta 305 | |
| Mat 309 | Mathematical Methods | 1 | 2/- | 2 | Mat 102 | |
| Sta 309 | Selected Topics in Statistics | 1 | -/2 | 2 | - | |

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| Mat 311 | Numbers Theory | 1 | 2/- | 2 | Mat 104 | |
|--|---|-------------|--------|--------------|--------------|-------------------------|
| Mat 404 | Quantum Mechanics | 2 | -/- | 2 | Mat 102 | |
| Sta 405 | Stochastic Processes (2) | 1 | 2/- | 2 | Sta 301 | |
| Sta 407 | Applications of Computer in Statistics | 1 | 2/- | 2 | Sta 200 | |
| Sta 409 | Sampling Methods | 1 | 2/- | 2 | Sta 203 | |
| Mat 411 | Electrodynamics | 2 | -/- | 2 | Mat 102 | |
| Com 424 | Compiler Theory | 2 | -/- | 2 | Com 102 | |
| Com 426 | Systems Analysis | 1 | 2/- | 2 | Com 102 | |
| Faculty Free Elective Courses: 6 Credit Hours | | | | | | |
| Course Code | Course Title | Theoretical | Pract. | Credit Hours | Prerequisite | Mathematical statistics |
| Zoo 234 | Introduction to Biotechnology | 2 | -/- | 2 | - | |
| Phy 235 | Renewable Energy | 2 | -/- | 2 | - | |
| Phy 240 | Principles of Modern Physics | 1 | -/3 | 2 | - | |
| Phy 250 | Principles of Alternating Currents and Electromagnetism | 2 | -/- | 2 | - | |



Mathematics programs

| Geo 260 | Petroleum Reservoir Fluids | 1 | -/3 | 2 | - | |
|--|-----------------------------|-------------|-------|--------------|--------------|---------------------------------|
| Eco 290 | Biodiversity | 1 | -/3 | 2 | - | |
| Faculty Graduation requirements: 6 Credit Hours | | | | | | |
| Sta 312 | Applied and Field Training | - | -/- | 3 | -- | |
| Sta 400 | Research and Essay | 3 | -/- | 3 | -- | |
| Faculty Compulsory Courses: 60 Credit Hours | | | | | | |
| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite | Statistics and Computer Science |
| Sta 200 | Probability Theory (1) | 1 | 2/- | 2 | Mat 103 | |
| Mat 202 | Discrete Mathematics | 1 | 2/- | 2 | Mat 102 | |
| Sta 202 | Statistical Theory (1) | 1 | 2/- | 2 | Sta 203 | |
| Sta 203 | Principles of Statistics | 1 | 2/- | 2 | Mat 101 | |
| Sta 204 | Mathematical Statistics | 1 | 2/- | 2 | Sta 200 | |
| Sta 209 | Regression Analysis | 1 | 2/- | 2 | Mat 103 | |
| Com 220 | Data Structure | 2 | -/2 | 3 | Com 102 | |
| Com 221 | Object-oriented Programming | 2 | 2/- | 3 | Com 101 | |
| Sta 302 | Nonparametric Analysis | 2 | 2/- | 3 | Sta 203 | |



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| Sta 304 | Statistical Theory (2) | 2 | 2/- | 3 | Sta 202 |
|--|-------------------------------------|-------------|-------|--------------|--------------|
| Mat 309 | Mathematical Methods | 1 | 2/- | 2 | Mat 102 |
| Mat 311 | Number Theory | 1 | 2/- | 2 | Mat 104 |
| Com 321 | Algorithms Design and Analysis | 2 | 2/- | 3 | Com 221 |
| Com 323 | Database Management Systems | 2 | 2/- | 3 | Com 102 |
| Com 324 | Computer Applications in Statistics | 1 | 2/- | 2 | Sta 203 |
| Com 326 | Modeling and Simulation | 1 | 2/- | 2 | Com 221 |
| Sta 401 | Multivariate Analysis | 1 | 2/- | 2 | Sta 203 |
| Sta 403 | Statistical Decision Theory | 2 | 2/- | 3 | Sta 203 |
| Sta 404 | Baysian Statistics | 2 | 2/- | 3 | Sta 203 |
| Com 420 | Computer Graphics | 2 | -/2 | 3 | - |
| Com 421 | Data Mining | 2 | - /2 | 3 | Com 220 |
| Com 422 | Machine Learning | 2 | -/2 | 3 | Com 220 |
| Com 423 | Computer Security | 2 | 2/- | 3 | - |
| Com 426 | System Analysis | 1 | 2/- | 2 | Com 102 |
| Faculty Elective Courses: 28 Credit Hours | | | | | |
| Course Code | Course Title | Theoretical | T / P | Credit Hours | Prerequisite |

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| | | | | | |
|---------|---|---|-----|---|---------|
| Com 203 | Logic Design (2) | 1 | 2/- | 2 | Com 102 |
| Com 224 | Operating Systems | 1 | 2/- | 2 | - |
| Com 327 | Selected Topics in Computer Science (1) | 1 | 2/- | 2 | - |
| Com 328 | Computer Network | 1 | 2/- | 2 | Com 221 |
| Com 411 | Selected Topics in Computer Science (2) | 2 | 2/- | 3 | - |
| Com 423 | Computer Security | 2 | 2/- | 3 | - |
| Com 429 | Scientific Computation (2) | 2 | 2/- | 3 | Com 102 |
| Com 432 | Distributed Computing | 2 | -/2 | 3 | Com 102 |
| Sta 212 | Simulation Modeling | 2 | -/1 | 2 | - |
| Mat 203 | Linear Algebra | 2 | 2/- | 3 | Mat 103 |
| Mat 204 | Numerical Analysis (1) | 1 | 2/- | 2 | Mat 101 |
| Mat 205 | Real Analysis (1) | 1 | 2/- | 2 | Mat 102 |
| Mat 206 | Space Geometry | 1 | 2/- | 2 | Mat 103 |
| Mat 302 | Special Function | 1 | 2/- | 2 | Mat 102 |
| Mat 305 | Operation Research (1) | 1 | 2/- | 2 | Mat 102 |
| Mat 310 | Mathematical Logic | 1 | 2/- | 2 | Mat 104 |



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| Sta 205 | Statistical Inference (1) | 2 | 2/- | 3 | Sta 203 | | |
|--|---|-------------|--------|--------------|--------------|---------------------------------|--|
| Sta 309 | Selected Topics in Statistics | 1 | -/2 | 2 | - | | |
| Sta 408 | Advanced Distribution Theory | 2 | 2/- | 3 | Sta 202 | | |
| Faculty Free Elective Courses: 6 Credit Hours | | | | | | | |
| Course Code | Course Title | Theoretical | Pract. | Credit Hours | Prerequisite | Statistics and Computer Science | |
| Zoo 234 | Introduction to Biotechnology | 2 | -/- | 2 | - | | |
| Phy 235 | Renewable Energy | 2 | -/- | 2 | - | | |
| Phy 240 | Principles of Modern Physics | 1 | -/3 | 2 | - | | |
| Phy 250 | Principles of Alternating Currents and Electromagnetism | 2 | -/- | 2 | - | | |
| Geo 260 | Petroleum Reservoir Fluids | 1 | -/3 | 2 | - | | |
| Eco 290 | Biodiversity | 1 | -/3 | 2 | - | | |
| Faculty Graduation requirements: 6 Credit Hours | | | | | | | |
| Com 330 | Applied and Field Training | - | -/- | 3 | - | | |
| Com 434 | Research and Essay | 3 | -/- | 3 | - | | |