| Name: SID \#: |  |  | PURE MATH COURSEWORK <br> MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
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| BREADTH REQUIREMENTS ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH PURE MATHEMATICS Upper-Division Coursework (56 units) |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | 36 units of upper-div to include at least 24 units from the following: |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH132 | 4 |  |
| HUMANITIES (12 units minimum) |  |  | CS010 | 4 |  | MATH145A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH145B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH151A | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | MATH151B | 4 |  |
|  |  |  | CS011 is recommended |  |  | MATH151C | 4 |  |
| One (1) additional humanities course |  |  | Year of ScienceBIOL005, CHEM001, or PHYS040 Series |  |  | MATH171 | 4 |  |
|  |  |  |  |  |  | MATH172 | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  |  |  |  | At least 3 courses from above must be: |  |  |
| One (1) course in: economics, political science |  |  |  |  |  | MATH145A |  |  |
|  |  |  |  |  |  | MATH145B |  |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH courses. |  |  | MATH151A |  |  |
|  |  |  |  |  |  | MATH151B |  |  |
| One (1) additional social sciences course |  |  |  |  |  | MATH151C |  |  |
| ETHNIC STUDIES (4 units minimum) |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Plan accordingly. |  |  | 20 additional upper-div |  |  |
|  |  |  |  | 4 |  |  |  |  |
| May count towards addt'l humanities or addt'l social sciences, but not both |  |  |  |  |  |  | 4 |  |
|  |  |  |  | 4 |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  |  | 4 |  |
|  |  |  |  |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  |  | 4 |  |
| MATHEMATICS (4 units minimum) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  |  |  |  |  |  |  |
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| Name: SID \#: |  |  | GENERAL APPLIED MATH COURSEWORK MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
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| BREADTH REQUIREMENTS ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH General Applied Concentration Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH General Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CS010 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | General MATH Option Area must take the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Year of ScienceBIOL005, CHEM001, or PHYS040 Series |  |  | MATH150A or MATH151A | 4 |  |
|  |  |  |  |  |  | MATH168 | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  |  |  |  | 16 units from the following: |  |  |
| One (1) course in: economics, political science |  |  |  |  |  | MATH120 | 4 |  |
|  |  |  |  |  |  | MATH121 | 4 |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH courses. |  |  | MATH126 | 4 |  |
|  |  |  |  |  |  | MATH141 | 4 |  |
| One (1) additional social sciences course |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and <br> MATH150A (also requires MATH009C \& MATH010B with C- or better). Plan accordingly. |  |  | MATH149A | 4 |  |
|  |  |  |  |  |  | MATH149B | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | MATH151B | 4 |  |
| May count towards addt'l humanities or addt'1 social sciences, but not both |  |  |  |  |  | MATH165A | 4 |  |
|  |  |  | MATH165B | 4 |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  | Please review course offerings for course availability and appropriate course planning. |  |  |
|  |  |  |  |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  |
| MATHEMATICS (4 units minimum) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  |  |  |  |
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| $\begin{aligned} & \text { Name: } \\ & \text { SID \#: } \end{aligned}$ |  |  | MATH APPLIED BIOL COURSEWORK MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH BIOL Option Concentration Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH BIOL Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CSO10 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | BIOL Option Area must take the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Year of Science |  |  | MATH149A | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  |  |  |  | 3 courses from the following: |  |  |
|  |  |  | BIOL005A/05LA | 5 |  | MATH120 | 4 |  |
| One (1) course in: economics, political science |  |  | BIOL005B | 4 |  | MATH121 | 4 |  |
|  |  |  | BIOL005C | 4 |  | MATH135A | 4 |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH courses. |  |  | MATH135B | 4 |  |
|  |  |  |  |  |  | MATH149B | 4 |  |
| One (1) additional social sciences course |  |  |  |  |  | BIOL Upper-Division, must take: |  |  |
|  |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Also review upper-div BIOL preqs. Plan accordingly. |  |  | BIOL102 | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | BIOL105 | 4 |  |
| May count towards addt'1 humanities or addt'l social sciences, but not both |  |  |  |  |  | BIOL108 | 4 |  |
|  |  |  |  |  |  | 4 additional units of upper-division BIOL |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  |  | 4 |  |
| MATHEMATICS (4 units minimum) |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  | Please review course offerings for course availability, prerequisites, and appropriate course planning. |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  | Un University of California |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  |  |  |  |  |  |  |
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| $\begin{aligned} & \text { Name: } \\ & \text { SID \#: } \end{aligned}$ |  |  | MATH APPLIED CHEM COURSEWORK MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
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| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH CHEM Option Concentration Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH CHEM Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CSO10 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | CHEM Option Area must take 4 from the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Science Sequences for applied CHEM |  |  | MATH120 | 4 |  |
|  |  |  |  |  |  | MATH135A | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  | CHEM001A/01LA | 5 |  | MATH135B | 4 |  |
| One (1) course in: economics, political science |  |  | CHEM001B/01LB | 5 |  | MATH149A | 4 |  |
|  |  |  | CHEM001C/01LC | 5 |  | MATH149B | 4 |  |
| One (1) course in: anthropology, psychology, sociology |  |  | PHYS040A | 5 |  | MATH165A | 4 |  |
|  |  |  | PHYS040B | 5 |  | MATH165B | 4 |  |
| One (1) additional social sciences course |  |  | PHYS040C | 5 |  | CHEM Upper-Division, must take: |  |  |
|  |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Also review upper-div CHEM preqs. Plan accordingly. |  |  | CHEM110A | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | CHEM110B | 4 |  |
| May count towards addt'l humanities or addt'l social sciences, but not both |  |  |  |  |  | CHEM111 | 4 |  |
|  |  |  | CHEM113 | 4 |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  | Additional 4 units of upper-div CHEM |  |  |
|  |  |  |  |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. <br> Be aware potential time conflicts between CHEM110 and MATH146 series |  |  |  | 4 |  |
| MATHEMATICS (4 units minimum) |  |  | Please review course offerings for course availability, prerequisites, and appropriate course planning. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  | UCRIVERSIIDE |  |  |
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| $\begin{aligned} & \text { Name: } \\ & \text { SID \#: } \end{aligned}$ |  |  | MATH APPLIED ECON COURSEWORK MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH ECON Option Concentration Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH ECON Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CS010 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | ECON Option Area must take the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Year of ScienceBIOL005, CHEM001, or PHYS040 Series |  |  | MATH120 | 4 |  |
|  |  |  |  |  |  | MATH121 | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  |  |  |  | MATH149A | 4 |  |
| One (1) course in: economics, political science |  |  |  |  |  | MATH149B | 4 |  |
|  |  |  |  |  |  | MATH149C | 4 |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH courses. |  |  | ECON 5 Upper-Division (at least 20 units) |  |  |
|  |  |  |  |  |  | ECON | 4 |  |
| One (1) additional social sciences course |  |  |  |  |  | ECON | 4 |  |
|  |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Plan accordingly. |  |  | ECON | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | ECON | 4 |  |
| May count towards addt'1 humanities or addt'l social sciences, but not both |  |  |  |  |  | ECON | 4 |  |
|  |  |  |  |  |  | Please review course offerings for course availability, prerequisites, and appropriate course planning. |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  |  |  |  |
| MATHEMATICS (4 units minimum) |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  |  |  |  |
|  |  |  | In lieu of ECON102A, 102B, 103A, and 103B choices, either ECON102 or ECON104A may be taken |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  |  |  |  |  |  |  |
|  |  |  | UUNIVERSITY OF CALIFORNIA |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  |  |  |  |  |  |  |
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| $\begin{aligned} & \text { Name: } \\ & \text { SID \#: } \end{aligned}$ |  |  | MATH APPLIED ENSC COURSEWORK MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
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| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH ENSC Option Concentration <br> Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH ENSC Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CSO10 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | ENSC MATH Upper-Division must take the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Science Sequences for applied ENSC |  |  | MATH149A | 4 |  |
|  |  |  | CHEM001A/01LA | 5 |  | ENSC MATH Upper-Division musttake 3 of the following: |  |  |
| SOCIAL SCIENCES (12 units minimum) |  |  | CHEM001B/01LB | 5 |  |  |  |  |
| One (1) course in: economics, political science |  |  | CHEM001C/01LC | 5 |  | MATH120 | 4 |  |
|  |  |  | Additional Lower-Div Sciences |  |  | MATH121 | 4 |  |
| One (1) course in: anthropology, psychology, sociology |  |  | ENSC006/ECON006 | 4 |  | MATH135A | 4 |  |
|  |  |  | GEO001 (recommended) | 4 |  | MATH135B | 4 |  |
| One (1) additional social sciences course |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Also review upper-div ENSC preqs. Plan accordingly. |  |  | MATH149B | 4 |  |
|  |  |  |  |  |  | CS177 | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | STAT155 | 4 |  |
| May count towards addt'1 humanities or addt'l social sciences, but not both |  |  |  |  |  | ENSC Upper-Div must take the following: |  |  |
|  |  |  | ENSC100/SWSC100 | 4 |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  | ENSC101 | 4 |  |
|  |  |  | ENSC102 | 4 |  |  |  |  |
| MATHEMATICS (4 units minimum) |  |  | Additional 4 units of upper-div ENSC |  |  |  |  |  |
|  |  |  |  | 4 |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  | Review course offerings for availability, prerequisites, \& appropriate course planning. |  |  |  | 4 |  |
|  |  |  |  |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  |  |  |  |
|  |  |  | PLEASE NOTE: ENSC002 is a prerequisite for ENSC upper-div. |  |  |  |  |  |


| $\begin{aligned} & \text { Name: } \\ & \text { SID \#: } \end{aligned}$ |  |  | MATH APPLIED PHYS COURSEWORK MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
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| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH PHYS Option Concentration Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH PHYS Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CSO10 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | PHYS MATH Upper-Division must take the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Recommended Science Sequence for applied PHYS |  |  | MATH135A | 4 |  |
|  |  |  |  |  |  | MATH165A | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  | PHYS040A | 5 |  | MATH165B | 4 |  |
| One (1) course in: economics, political science |  |  | PHYS040B | 5 |  | Take 1 of the following: |  |  |
|  |  |  | PHYS040C | 5 |  | MATH120 or MATH171 | 4 |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH \& PHYS courses. |  |  | PHYS Upper-Division must take the following: |  |  |
| One (1) additional social sciences course |  |  |  |  |  | PHYS130A | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Also review upper-div PHYS preqs. Plan accordingly. |  |  | PHYS130B | 4 |  |
|  |  |  | Take 1 series of the following: |  |  |  |
| May count towards addt'1 humanities or addt'1 social sciences, but not both |  |  |  |  |  | PHYS135A, 135B, 136 | 12 |  |
|  |  |  | OR |  |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  | PHYS156A \& 156B | 8 |  |
| MATHEMATICS (4 units minimum) |  |  |  |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  | Please review course offerings for course availability, prerequisites, and appropriate course planning. |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  |  |  |  |  |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  | U UNIVERSITY OF CALIFORNIA |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $\begin{aligned} & \text { Name: } \\ & \text { SID \#: } \end{aligned}$ |  |  | MATH APPLIED STAT COURSEWORK <br> Bachelor of Science (Fall 2016 or earlier catalogs, NA for 2017 to current) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | MATH STAT Applied Concentration Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the STAT Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH135A\&B or 149A\&B | 8 |  |
| HUMANITIES (12 units minimum) |  |  | CSO10 | 4 |  | MATH146A | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH146B | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH146C | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | STAT Applied Option Area must take the following: |  |  |
|  |  |  | CS011 is recommended |  |  |  |  |  |
| One (1) additional humanities course |  |  | Year of ScienceBIOL005, CHEM001, or PHYS040 Series |  |  | MATH120 | 4 |  |
|  |  |  |  |  |  | STAT160A | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  |  |  |  | STAT160B |  |  |
| One (1) course in: economics, political science |  |  |  |  |  | STAT160C | 4 |  |
|  |  |  |  |  |  | Must take one of the following: |  |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH \& STAT courses. |  |  | STAT130 or STAT146 | 4 |  |
|  |  |  |  |  |  | Must take the following: |  |  |
| One (1) additional social sciences course |  |  |  |  |  | STAT161 | 4 |  |
|  |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and <br> MATH150A (also requires MATH009C \& MATH010B with C- or better). Plan accordingly. |  |  | STAT170A | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | STAT170B | 4 |  |
| May count towards addt'l humanities or addt'l social sciences, but not both |  |  |  |  |  | STAT171 | 4 |  |
|  |  |  |  |  |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  | Please review course offerings for course availability and appropriate course planning. Most STAT courses are offered once a year. |  |  |
| MATHEMATICS (4 units minimum) |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  | UNUIVERSITY OFCALIFORNIA |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |


| Name: SID \#: |  |  | COMPUTATIONAL MATH COURSEWORK <br> MATH Bachelor of Science (Fall 2016 or earlier catalogs) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BREADTH REQUIREMENTS <br> ( 180 units minimum to graduate, 216 max) |  |  | MATH Core Requirement Lower-Div Entire major GPA must completed with at least a 2.00 GPA |  |  | Computational MATH Concentration Lower \& Upper-Division Coursework |  |  |
| Common Breadth Courses |  |  | Course Offerings |  |  | Course Offerings |  |  |
| English (12 units) - Grade of "C" or better is required |  |  | Course Name | Units | Completed | The following must be taken from the MATH General Core Concentration |  |  |
| Course Name | Units | Completed | MATH009A | 4 |  |  |  |  |
| ENGL001A | 4 |  | MATH009B | 4 |  | Course Name | Units | Grade |
| ENGL001B | 4 |  | MATH009C | 4 |  | MATH131 | 4 |  |
| ENGL001C | 4 |  | MATH031 | 5 |  | MATH120 | 4 |  |
| HUMANITIES (12 units minimum) |  |  | CS010 | 4 |  | MATH132 | 4 |  |
| One (1) course from: World History 10, 15, or 20 |  |  | MATH010A | 4 |  | MATH135A | 4 |  |
|  |  |  | MATH010B | 4 |  | MATH135B | 4 |  |
| One (1) course in: fine arts, literature, philosophy, or religious studies |  |  | MATH046 | 4 |  | Computational MATH concentration |  |  |
|  |  |  | MATH/CS011 | 4 |  | must take the following: |  |  |
| One (1) additional humanities course |  |  | Year of ScienceBIOL005, CHEM001, or PHYS040 Series |  |  | CS012 | 4 |  |
|  |  |  |  |  |  | CS014 | 4 |  |
| SOCIAL SCIENCES (12 units minimum) |  |  |  |  |  | CS141 | 4 |  |
| One (1) course in: economics, political science |  |  |  |  |  | CS150 | 4 |  |
|  |  |  |  |  |  | One addt'l CS from techn elective |  |  |
| One (1) course in: anthropology, psychology, sociology |  |  | Please refer to prerequisite requirements for all MATH courses. |  |  | CS | 4 |  |
|  |  |  |  |  |  | 24 units of techn elective chosen from |  |  |
| One (1) additional social sciences course |  |  |  |  |  | CS111 | 4 |  |
|  |  |  | Please note: MATH144 is a prerequsite requirement for MATH145A and MATH150A (also requires MATH009C \& MATH010B with C- or better). Plan accordingly. |  |  | MATH121 | 4 |  |
| ETHNIC STUDIES (4 units minimum) |  |  |  |  |  | MATH126 | 4 |  |
| May count towards addt'l humanities or addt'l social sciences, but not both |  |  |  |  |  | MATH146A | 4 |  |
|  |  |  | MATH146B | 4 |  |  |  |  |
| BIOLOGICAL SCIENCES (4 units minimum) |  |  |  |  |  | MATH146C | 4 |  |
|  |  |  |  |  |  | Refer to your university catalog year and degree audit for specific course listings and all major requirements. |  |  | MATH149A | 4 |  |
| MATHEMATICS (4 units minimum) |  |  | MATH149B | 4 |  |  |  |  |
|  |  |  | MATH171 | 4 |  |  |  |  |
| PHYSICAL SCIENCE ( 4 units minimum) |  |  |  |  |  | CS130 | 4 |  |
|  |  |  |  |  |  | CS166 | 4 |  |
| Two additional 4-unit courses from life sciences or physical science |  |  |  |  |  | CS170 | 4 |  |
|  |  |  | CS177 | 4 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

