

Plan of Study: B.S. in Mathematics–Physics, Catalog Year 2019-2020

**Student Information.**

Name: \_\_\_\_\_ . Peoplesoft ID: \_\_\_\_\_ .

Permanent Address: \_\_\_\_\_ .

UConn Email: \_\_\_\_\_ . Other Email: \_\_\_\_\_ .

Phone Number: \_\_\_\_\_ . Signature: \_\_\_\_\_ . Date: \_\_\_\_\_ .

Degree Sought : B.S. Anticipated Date of Completion: \_\_\_\_\_ .

*All courses listed below must be completed for credit and regularly graded, not pass/fail. Check the box next to your chosen track.*

**TRACK A (Physics Emphasis)** .....

**Requirement 1.** Complete one of the following two sequences of courses. Check one completed

- (i) MATH 2110Q (or 2130Q or 2143Q) and 2210Q and 2410Q (or 2420Q) .....
- (ii) MATH 2141Q and 2142Q and 2143Q and 2144Q .....

**Requirement 2.** Complete all of the following courses. Check completed/anticipated

- (i) MATH 3146, 3410 and 3510 .....
- (ii) PHYS 2300, 2501W, 3101, 3201, 3202, 3300, 3401 .....

**Requirement 3.** Complete at least 9 additional credits from the following Physics courses: PHYS 2200, 2400, 2502, 3102, 3150, 3402, 3989, 4093, 4095, 4096W, 4098, 4099, 4100, 4130, 4140, 4150, 4210, 4300, 4350, 4900.

Course: \_\_\_\_\_ . Credits \_\_\_\_\_ . Course: \_\_\_\_\_ . Credits \_\_\_\_\_ .  
Course: \_\_\_\_\_ . Credits \_\_\_\_\_ . Course: \_\_\_\_\_ . Credits \_\_\_\_\_ .

**TRACK B (Mathematics Emphasis)** .....

**Requirement 1.** Complete one of the following two sequences of courses. Check completed

- (i) MATH 2110Q (or 2130Q or 2143Q), 2210Q, 2410Q (or 2420Q), 2710 (or 2141Q and 2142Q), and 3146 ....
- (ii) MATH 2141Q, 2142Q, 2143Q, 2144Q and 3146 .....

**Requirement 2.** Complete all of the following courses. Check completed/anticipated

PHYS 2300, 2501W, 3101, 3201, 3202, 3401 .....

**Requirement 3.** Complete at least 3 additional credits from among: PHYS 2200, 2400, 2502, 3102, 3150, 3300, 3402, 3989, 4093, 4095, 4096W, 4098, 4099, 4100, 4130, 4140, 4150, 4210, 4300, 4350, 4900.

Course: \_\_\_\_\_ . Credits \_\_\_\_\_ . Course: \_\_\_\_\_ . Credits \_\_\_\_\_ .

**Requirement 4.** Complete at least 4 additional courses from MATH 3150 (or 4110), 3151, 3160 (or 3165), 3210, 3230 (or 4210), 3330 (or 4310), 3370 and 3410.

Course: \_\_\_\_\_ . Credits \_\_\_\_\_ . Course: \_\_\_\_\_ . Credits \_\_\_\_\_ .  
Course: \_\_\_\_\_ . Credits \_\_\_\_\_ . Course: \_\_\_\_\_ . Credits \_\_\_\_\_ .

**W course in the major requirement:** Complete PHYS 2501W .....

**Approval Signatures.**

Mathematics Advisor: \_\_\_\_\_ . Physics Advisor: \_\_\_\_\_ .

Department Head or Undergraduate Program Director: \_\_\_\_\_ .

**SECOND LANGUAGE COMPETENCY**

A) 3 years high school level or B) 2 years high school level plus passing the 2nd year (Intermediate) UConn level or  
 C) 1st (Elementary) and 2nd (Intermediate) UConn levels or D) Successful completion of language equivalency exam

**WRITING COMPETENCY: First-Year English + 2 W courses**

ENGL 1010 or 1011 or 2011 or 6 or more credits of ENGL 91002 & 91003 (transferred); 2000+ level W in [each] major: \_\_\_\_\_ 2nd W any level: \_\_\_\_\_

**QUANTITATIVE COMPETENCY: 3 Q courses, one must be MATH or STAT ENVIRONMENTAL LITERACY COMPETENCY: 1 E Course (2019-2020 or later catalog year)**

Q \_\_\_\_\_ Q \_\_\_\_\_ Q \_\_\_\_\_ E \_\_\_\_\_

**CONTENT AREA ONE: ARTS & HUMANITIES**

**BA: 5 courses with at least one from each category A-D. 5th course can come from any area A-E**

(courses must be selected from at least 4 different academic units) **BS: 4 courses with at least one from each category A-D.**

<p><b>A: ARTS</b>                  ART/AASI/INDS 3375 AFRA/DRAM 3132 AFRA/FINA 1100 AMST/MUSI 1002 AMST/URBN 2400 ARAB 3771 ART 1000 ARTH 1128; 1137; 1138; 1140; 1141; 1162 CHIN 3250W*; 3270 CLCS 1002; 1110; 3211 DRAM 1101; 1110; 1501; 1811; 2134 DRAM/HEJS/HRTS 2203 FINA/MUSI 1001/1006 FREN 1171 GERM 1171; 3261W*; 3264W ILCS 1149; 3258W; 3260W MUSI 1001; 1003; 1004; 1005; 1021; 1022; 1112 SPAN 1010; 1020; 1030; 3250 WGSS 1104; 2217W</p>	<p><b>B: LITERATURE</b>                  ARAB 3550W CAMS 1101; 1102; 1103 CLCS 1101; 1102 ENGL 1101W; 1103W; 1503; 1616W; 2100; 2101; 2201W; 2203W; 2401; 2405; 2407; 2408W; 2409; 2411W; 2413W; 2605W; 2607; 3320; 3629; 3633W ENGL/AMST 2200; 2274W; 2276W ENGL/HEJS 3220W/3401W FREN 1176; 3234*; 3261W*; 3262W*; 3270W GERM 1140W; 3252W*; 3254W*; 3255W* HEJS 1103; 3201; 3301 ILCS 1101; 1180; 1158; 3255W SPAN 1007; 3232*; 3267W SPAN/LLAS 1009W</p>	<p><b>C: HISTORY</b>                  AASI/HIST 3531 AFRA/HIST 3206 AFRA/HIST/LLAS 3619W AMST 1700 AMST/ENGL/HIST 2207 ARAB 3751 DMD 2010 ECON 2101W; 2102W GEOG/URBN 1200 HIST 1100W; 1201; 1206; 1250; 1300; 1400; 1501W; 1502W; 1800; 1805; 2020; 2401W; 2402W; 2412W; 3705 HIST/HEJS 3362 HIST/LLAS 1570; 1600/1190W; 3607; 3609; 3635; 3660W; 3674/3220 HIST/MAST 2210E HIST/SCI 2206 HIST/URBN 3650 HIST/WGSS 1203/1121 MAST 1200</p>	<p><b>D: PHILOSOPHY &amp; ETHICAL ANALYSIS</b>                  ECON 2120 GERM 1175 HEJS 2104 HRTS 3200W; 3250W HRTS/PHIL 2170W; 3220W LAND 2210 LING 1010 NRE 1235E PHIL 1101; 1102; 1103; 1104; 1105; 1106; 1107; 1165W; 1175; 2410 POLS 1002</p>	<p><b>E: WORLD CULTURES</b>                  AASI/AMST 2201 ANTH 1001W; 3401; 3450W ARAB 1751; 1771; 2751 ARIS 1211 CHIN 1121; 1122 CLCS 1103W; 2201 CLCS/HEJS 2301 FREN 1169; 1177; 3210*; 3211*; 3218*; 3224*; 3235*; 3267*; 3268W* GERM 1169; 2400; 3251; 3258 ILCS 1160; 1170 INTD 3260 NURS 2175 SPAN 1008</p>
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**CONTENT AREA TWO: SOCIAL SCIENCES - 2 courses from 2 different academic units**

ANTH 1000W; 1006; 1010; 1500; 2000W; 2400 ANTH/AFRA 3152 ARE 1110; 1150; 2235 COMM 1000 ECON 1000; 1107; 1108; 1179; 1200; 1201; 1202 EDCI 2100 ENVE 1000 EPSY 1450W; 2450W; 2810 EVST 1000 GEOG 1000; 1700; 2000; 2100; 2320; 2400 HDFS 1060; 1070; 3141; 3311W; 3540W HRTS 1007 LING 1020; 1030; 2850; 3610W LLAS 1000 LLAS/SOCI 3525W MAST 1300 POLS 1202; 1207; 1402W; 1602W; 3023W; 3208W; 3211W; 3237W; 3250W; 3615W PP 1001 PSYC 1101 or 1103 PUBH 1001 SLHS 1150 SOCI 1001W; 1251W; 1501W; 1701; 2310; 3823 SPSS 1060 URBN 1300W WGSS 1105; 2124; 3253W

**CONTENT AREA THREE: SCIENCE & TECHNOLOGY**

**BS: 1 BIOL course and 1 sequence each of CHEM, MATH, & PHYS**

**BA: 2 courses from 2 different units, 1 must be lab**

**BS-ECON: Select 1 sequence from BIOL, CHEM, or PHYS; plus 1 other content area 3 course**

<p><b>BA</b>  <b>LABORATORY COURSES:</b>                  BIOL 1102; 1103; 1107; 1108; 1110                  CHEM 1122; 1124Q; 1127Q; 1128Q; 1147Q; 1148Q                  GEOG 1302 GSCI 1050 (or 1010 or 1051 or 1055 or 1070 &amp; 1052)                  MARN 1003; 1004 AND 1002 MCB 1200; 1201; 2612 PHYS 1010Q; 1025Q; 1035Q; 1075Q; 1201Q; 1202Q; 1401Q; 1402Q; 1501Q; 1502Q; 1600Q; 1601Q; 1602Q</p> <p><b>NON-LABORATORY COURSES</b>                  AH/NUSC 1030 ANSC/NUSC 1645 BME/CSE/MCB/PNB 1401                  CHEG 1200 COGS 2201 DMD 2010 FEB 2100E; 2202; 2208E; 2222;                  GEOG 2300; 2410 GEOG/GSCI 1070 GSCI 1010; 1051; 1055                  LING 2010Q MARN/MAST 1001 MARN 1002 MCB 1405 NRE 1000E                  NUSC 1165 PHAR 1000; 1001; 1005 PHYS 1020Q; 1030Q PSYC 1100                  SPSS 1060; 1150; 2120</p>	<p><b>BS</b>  <b>BIOL</b> 1107 or 1108 or 1110  <b>CHEMISTRY</b> 1124Q &amp; 1125Q &amp; 1126Q or 1127Q &amp; 1128Q or 1147Q &amp; 1148Q  <b>MATH</b> 1131Q &amp; 1132Q or 1151Q &amp; 1152Q or 2141Q &amp; 2142Q  <b>PHYSICS</b> 1201Q &amp; 1202Q or 1401Q &amp; 1402Q or 1501Q &amp; 1502Q or 1601Q &amp; 1602Q</p>	<p><b>BS — ECON</b>                  Select 1 Sequence  <b>BIOL</b> 1107 &amp; 1108 or 1110                  or  <b>CHEMISTRY</b> 1124Q &amp; 1125Q &amp; 1126Q or 1127Q &amp; 1128Q or 1147Q &amp; 1148Q                  or  <b>PHYSICS</b> 1201Q &amp; 1202Q or 1401Q &amp; 1402Q or 1501Q &amp; 1502Q or 1601Q &amp; 1602                  Q                  Plus one additional content area 3 laboratory or non-laboratory course from a different subject area</p>
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**CONTENT AREA FOUR: DIVERSITY & MULTICULTURALISM - 2 courses, at least one of which must be on the list of International courses**

<p><b>USA</b>                  AASI/AMST 2201 AASI/ENGL 3212 AASI/HIST 3531 AASI/SOCI 3221 AFRA/ANTH 3152 AFRA/ARTH 3050W AFRA/DRAM 3131; 3132 AFRA/ENGL 2214W; 3213W; 3215W; 3217W AFRA/FINA 1100 AFRA/SOCI/HRTS 3505 AFRA/POLS 3642 AFRA/PSYC 3106 AMST/ENGL/HIST 1201/1201/1503; 2207 AMST/MUSI 1002 ANTH 2000W; 3150W; 3202W; 3902; 3904 ARTH 3640W; 3645W CLCS/HEJS 2301 COMM/LLAS/WGSS 3321/3264/3260 DRAM 3130; 3133 EDCI 2100 EDLR 2001 ENGL 1601W; 3210; 3218W ENGL/AMST 2274W ENGL/LLAS 3605/3232 ENGL/WGSS 3609; 3611; 3613 EPSY 2100 HDFS 2001; 3141; 3261 HEJS 1103; 3301 HEJS/ENGL 3401W/3220W; HIST 3204W; 3570 HIST/LLAS 1570; 3660W; 3674/3220 HIST/WGSS 1203/1121 ILCS 1158; 3258W INTD 2245; 3584 LLAS 1000; 2011W; 3210 LLAS/SOCI 3525W LING 1030; 2850 MUSI 1003 NURS 1175W PHIL 1107 POLS/LLAS 3662/3270 PSYC 2101; 2701 PSYC/WGSS 3102 SLHS 1150 SOCI 1251W; 1501W; 2310; 2501W; 2503W; 2651W; 3601W SOCI/WGSS 3621W SPAN/LLAS 1009W URBN 1300W WGSS 1104; 1105; 2217W; 3718W</p>	<p><b>INTERNATIONAL</b>                  AFRA/HIST 3206 AFRA/HIST/LLAS 3619W AH 2330 ANTH 1000W; 1001W; 1006; 1010; 1500; 2400; 3030; 3401 ANTH/HRTS 3028W; 3153W ARAB 1751 1771; 2751; 3751; 3771 ARIS 1211 ART/AASI/INDS 3375 ARTH 1128; 1141; 3630W CHIN 1121; 1122; 3230; 3250W*; 3270 CLCS 1101; 1102; 1103W; 2201; 3211 DRAM 1501 DRAM/HEJS/HRTS 2203 EEB 2202 ENGL 1301; 2301W; 3120; 3122W; 3318; 3319; 3320; 3629 FREN 1169; 1171; 1176; 1177; 3211*; 3218*; 3224* GEOG 1700; 2000; 2400 GERM 1169; 1171; 1175; 3251; 3258; 3261W* HEJS 2104 HIST 1206; 1800; 1805; 2020; 3705 HIST/HEJS 3362 HIST/LLAS 1600/1190W; 3607; 3609; 3635 HRTS 1007; 3200W ILCS 1149; 1160; 1180; 3260W LING 1020; 3610W MAST 1300; 2100W MUSI 1004; 3421W NRE 2600E; 3305 NURS 2175 NUSC 1167 PHIL 1106 POLS 1202; 1207; 1402W; 3472W SOCI 1701; 2509W; 3823 SPAN 1007; 1008; 1010; 1020; 1030; 3250 SPSS 1125 WGSS 2105W; 2124; 2255W; 3255W</p>
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**NOTES:** 1) Bold numbers indicate the courses may "double-clip"; that is two courses in CA 1, 2, or 3 can also be used to fulfill a CA 4 requirement. Please note that CA 1 is the only CA where two courses may be used to fulfill CA 4. 2) If a course is offered as both W and non-W, either will fulfill the General Requirements. 3) \* = foreign language pre-requisite/taught in foreign language. 4) Courses in CA 1, 2, & 3 must be taken in at least 6 different academic units. 5) Additional courses approved for general education after catalog deadline date can be used to meet requirements. See clasadvising.uconn.edu 6) Students must complete ALL content areas and competencies to fulfill the CLAS general education requirement.