

CSE Undergraduate University Bulletin Supplement

June 21, 2018

The University Undergraduate Bulletin is available at:

<http://sb.cc.stonybrook.edu/bulletin/current/academicprograms/cse/degreesandrequirements.php>

Some information we have on the department websites (both SBU and SUNUK) is incorrect. When in doubt, please go by the Bulletin.

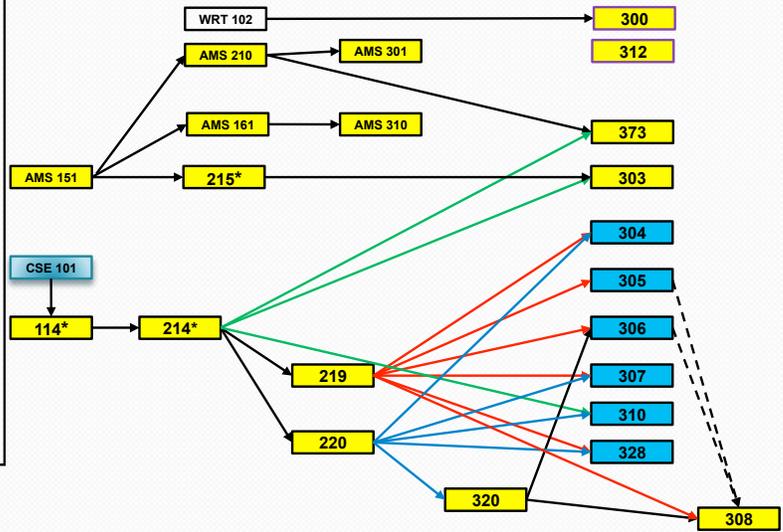
Additional information that will be useful but not explicitly mentioned in the Bulletin include the following:

1. Starting from Fall 2017 only those CS students who have already passed the following courses with a passing grade (C or higher) will be eligible to go to Stony Brook University: CSE 114 Introduction to Object-Oriented Programming, CSE 214 Data Structures, and CSE 215 Foundations of Computer Science.
2. The CS website at SBU states that "*At least two of the courses under the upper-division elective requirement below must be completed at Stony Brook.*" For students at SUNY Korea all courses completed at SUNY Korea would be considered as having been taken at Stony Brook.
3. Upper-division includes 300- and 400-level courses.
4. Prerequisite enforcement: For all CSE and MATH/AMS courses that make up your program of study toward your CSE degree, we strictly enforce prerequisites. If you somehow register a course without meeting the prerequisites, we will deregister it as soon as we find it.
5. For CSE graduation purposes all CSE courses and MATH/AMS courses must be completed with a grade of C or higher. Example: Even if a student passes CSE 303 with an A, if the student earned a C- in CSE 215 taken before CSE 303, the student would still have to retake CSE 215 to earn at least a C grade.
6. CSE 487 (Research in Computer Science) can cover one of the three upper-level CSE technical electives required for the CSE major, provided it carries at least three credits. The course can be repeated and credits can be spread over several semesters. For example, if a student takes CSE 487 for two credits in the fall semester and again for two credits in the spring semester, the combination would be considered as one technical elective.
7. SUNY Korea does not have undeclared majors or pre-majors. Since transfer students to SUNY Korea have to be admitted to a major at the time of transfer, we allow direct admission of qualified transfer students to CSE at SUNY Korea, effective Fall 2017.
8. One of the grading options that are available to you is GPNC (Graded/Pass/No Credit Option). Consider using it if you foresee any difficulty with a course and *if the course may be taken with that option.*
9. In case of changes to graduation requirements we allow students to follow the new requirements. We ask students who want to change their *major requirement date* to submit a corresponding request to the department coordinator, so that s/he can request to update the information on the student's official record. (Students

- can have different dates for major and general university requirements, respectively.) This will ensure that the degree progress reports, which are based on the official requirement dates, are accurate. For example, many CSE majors have changed to the Fall 2016 requirements, to take advantage of the increased flexibility in the natural science part of the general university requirements.
10. CSE majors may choose to go to SBU for one year during their sophomore, junior, or senior year (effective April 1, 2017). A student who graduates at SBU earning a degree after having been there for at least two consecutive semesters may apply for OPT (Optional Practical Training).
 11. CSE majors pursuing a BS/MS joint program may visit SBU during their senior year and stay another year (fifth year) to complete their MS degree. After the first year at SBU they would have to visit the VIS Office to change their program to the MS program. If a student visits SBU during his/her sophomore or junior year and come back to SUNYK, s/he can go back to SBU in his/her fifth year to complete the MS degree.
 12. The two charts at the end of this document show the core CSE courses along with the MATH/AMS courses that make up the CS curriculum: the first one is the current and the second is the new one for students matriculating in Fall 2018 or later. They also indicate the frequency of course offerings. Our course offering plan can also be found on our department website.
 13. AMS is planning on offering AMS 151, AMS 161, AMS 210, AMS 301, and AMS 310 every semester.
 14. As you plan your courses, please see the prerequisite sequence of the courses that you will need to complete. The longest chain would be CSE 101-114-214-(219 and 220)-320-306-308 if you choose to take CSE 306. If you choose to take CSE 305 instead of CSE 306, it would be CSE 101-114-214-219-305-308, but you would still have to take CSE 320 so you would also have to worry about this chain: CSE 101-114-214-220-320-308. With the new curriculum effective with students matriculating in Fall 2018 or later, the longest chain would be CSE 101-114-214-216-316-416 and CSE 101-114-214-220-320-416. Note that some courses are more demanding than others, so discuss your plan with your faculty advisor. Starting in Spring 2018, we will place an academic hold on your record if you do not have an advising session with your faculty advisor at least one week before the registration week starts. Your faculty advisor usually sends an email requesting an advising session. If you don't receive one, it may be going into your spam folder.
 15. There are four specializations available in CS (see the Bulletin). If you plan well utilizing the year at SBU, you may be able to complete one of them.
 16. If you have any questions, please contact your CS faculty advisor or the chair of the CS Department (Arthur Lee, alee@sunykorea.ac.kr). You can find your advisor in the list posted in CS Commons.

CS curriculum

- CSE 101 Intro to Computational Thinking
- CSE 114 CS I
- CSE 214 CS II
- CSE 215 Foundations of CS
- CSE 219 CS III
- CSE 220 System Fundamentals I
- CSE 300 Technical Communications
- CSE 303 Intro to Theory of Computation
- CSE 304 Compiler Design
- CSE 305 Principles of Database Systems
- CSE 306 Operating Systems
- CSE 307 Principles of Programming Languages
- CSE 308 Software Engineering
- CSE 310 Computer Networks
- CSE 312 Legal, Social, and Ethical Issues in Information Systems
- CSE 320 System Fundamentals II
- CSE 328 Fundamentals of Computer Graphics
- CSE 373 Analysis of Algorithms
- AMS 151 Applied Calculus I
- AMS 161 Applied Calculus II
- AMS 210 Applied Linear Algebra
- AMS 301 Finite Mathematical Structures
- AMS 310 Survey of Probability and Statistics



- Required (C or higher)
- Elective (C or higher, 3 out of the 6)
- Prerequisite
- -> Prerequisites (OR)
- * Must be taken at SUNYK

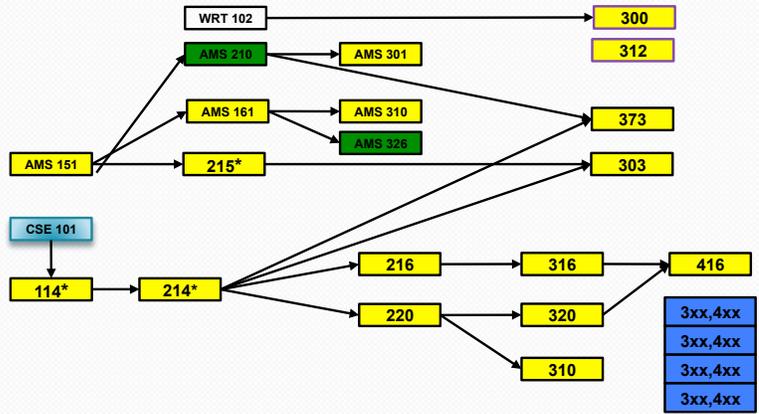
Plan: 1xx, 2xx: offered every semester
 300, 312: every other year
 other 3xx listed here: once a year

CS curriculum (Fall 2018)

- CSE 101 Intro to Computational Thinking
- CSE 114 CS I
- CSE 214 CS II
- CSE 215 Foundations of CS
- CSE 216 Programming Abstractions
- CSE 220 System Fundamentals I
- CSE 300 Technical Communications
- CSE 303 Intro to Theory of Computation
- CSE 310 Computer Networks
- CSE 312 Legal, Social, and Ethical Issues in Information Systems
- CSE 316 Fundamentals of Software Development
- CSE 320 System Fundamentals II
- CSE 373 Analysis of Algorithms
- CSE 416 Software Engineering

- AMS 151 Applied Calculus I
- AMS 161 Applied Calculus II
- AMS 210 Applied Linear Algebra
- AMS 301 Finite Mathematical Structures
- AMS 310 Survey of Probability and Statistics
- AMS 326 Numerical Analysis

- Required
 - 3xx, 4xx electives (4 courses)
 - Prerequisite
 - * Must be taken at SUNYK
 - One of the two
- CSE 216 first offered in Spring 2019



Plan: 1xx, 2xx: offered every semester
 300, 312: every other year
 316, 320, 416: at least once a year
 303, 310, 373: once a year
 3xx, 4xx electives: whenever we can