

## Program Progression Guide

**Disclaimer:** The [2018-2019 Purdue West Lafayette catalog](#) is considered the source for academic and programmatic requirements for students entering programs during the Fall 2018, Spring 2019, and Summer 2019 semesters. The Program Progression Guide assists students in the development of an individualized 8-semester plan. Students are encouraged to use this guide, myPurduePlan\* (online degree auditing tool) and the Student Educational Planner (SEP) as they work with their academic advisor towards the completion of their degree requirements.

**Notification:** Each student is ultimately responsible for knowing, monitoring and completing all degree requirements.

An undergraduate degree in the College of Science requires completion of the following degree requirements.

<b>University Degree Requirements</b>		
Minimum 2.0 Cumulative GPA	Minimum 120 Credits that fulfill degree requirements	32 Residency Credits (30000 and above) at a Purdue University campus
<b>University Core Curriculum**</b>		
<ul style="list-style-type: none"> <li>Human Cultures: Behavioral/Social Science</li> <li>Human Cultures: Humanities</li> <li>Information Literacy</li> <li>Oral Communication</li> </ul>	<ul style="list-style-type: none"> <li>Quantitative Reasoning</li> <li>Science</li> <li>Science, Technology &amp; Society Selective</li> <li>Written Communication</li> </ul>	
<b>Required Major Program Courses</b>		
A minimum of 32 semester credits of upper level (30000+) required.		
<b>College of Science Core Curriculum</b>		
<ul style="list-style-type: none"> <li>Freshman Composition: 3-4 credits</li> <li>Technical Writing and Presentation: 3-6 credits</li> <li>Teaming &amp; Collaboration (NC)</li> <li>General Education - 9 credits</li> </ul>	<ul style="list-style-type: none"> <li>Foreign Language &amp; Culture: 0-9 credits</li> <li>Great Issues - 3 credits</li> <li>Laboratory Science: 6-8 credits</li> <li>Multidisciplinary: 0-3 credits</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics: 6-10 credits</li> <li>Statistics: 3 credits</li> <li>Computing: 3-4 credits</li> </ul>
<b>Degree Electives</b>		
Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. Consult the <a href="#">No Count course list</a> for courses which may not be used to meet any College of Science degree requirement.		

\* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

\*\* University Core Curriculum Outcomes may be met through completion of the College of Science Core curriculum. Students should consult with their academic advisors and myPurdue Plan for course selections.

## 2018-19 Data Science Degree Progression Guide

The Computer Science & Statistics Departments have *suggested* the following degree progression guide for the Data Science Degree. Students will work with their academic advisors to determine their best path to degree completion. Course pre-requisites are specific to this degree plan. Courses meeting the College of Science Core Curriculum requirements are marked with "SCC" and a letter corresponding to the legend below:

### College of Science Core Curriculum (SCC)

- |                                       |                       |
|---------------------------------------|-----------------------|
| A. Freshman Composition               | G. Laboratory Science |
| B. Technical Writing and Presentation | H. Multidisciplinary  |
| C. Teaming and Collaboration          | I. Mathematics        |
| D. General Education                  | J. Statistics         |
| E. Foreign Language and Culture       | K. Computing          |
| F. Great Issues                       |                       |

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	CS 18000 <sup>CC ***</sup> (SCC-C)	Co-req MA 16100 or MA 16500	3	CS 18200 ***	CS 18000 & (MA 16100 or MA 16500)
1	CS 19100*	Co-req CS 18000	1	CS 38003 Python Programming	CS 18000 or CS 24000
1	CS 19300 Tools	Co-req CS 19100	4-5	MA 16200 or MA 16600	MA 16100 or MA 16500
4-5	MA 16100 <sup>CC</sup> or MA 16500 <sup>CC</sup>	ALEKS score 85+	3-4	ENGL 10600/10800/HONR 19903 or Language 10100	
3-4	ENGL 10600/10800/HONR 19903 or Language 10100		3	General Education I	
1	Free elective				
<b>14-16</b>			<b>14-16</b>		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	CS 24200 ***	CS 18000, CS 18200 & CS 38003. Co-req STAT 35500	3	CS 25100 ***	CS 18200 & CS 24200
3	STAT 35500 ***	MA 16200 or MA 16600	3	MA 35100	MA 16200 or MA 16500 & co-req MA 26100 or MA 27101
4-5	MA 26100 or MA 27101	MA 16200 or MA 16600	3-4	Language 20100/Culture or Diversity course	Lang 10200
3-4	Language 10200	Lang 10100	3	STAT 41600	MA 26100 or MA 26300 or MA 17400 or MA 18200 or MA 27100 or MA 27101
1-3	Free elective		1-3	Science, Technology and Society	
<b>14-18</b>			<b>13-16</b>		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	CS 37300	CS 18200 and CS 25100 Co-req STAT 35500	3	CS Elective I	varies
3	STAT 41700	varies	3	STAT Elective	varies
3	COM 21700	MA 16200 or MA 16600	3	Great Issues	varies
3	General Education II		3	General Education III	
3	Free elective		3	Free elective	
<b>15</b>			<b>15</b>		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	CS Elective II	varies	0-3	Capstone Experience/Course	Varies
3-4	Lab Science I	varies	3-4	Lab Science II	Lab I
3	CS 49000 LSDA	CS 37300	3	Free elective	
3	Free elective		3	Free elective	
3	Free elective		3	Free elective	
<b>15-16</b>			<b>12-16</b>		

\* Enrollment in freshman seminar courses CS 19100 and CS 19300 is required with CS 17700 or CS 18000. They are not degree requirements. CS 29100 sophomore seminar and CS 39100 junior seminar are optional but recommended.

Superscript of CC (eg CS 18000<sup>CC</sup>) indicates a Critical Course

\*\*\*All CS core courses and all track requirements, regardless of department, must be completed with a grade of "C" or higher (effective fall 2011). All prerequisites to CS core courses and track requirements, regardless of department, must be completed with a grade of C or higher (effective Fall 2015).