

CURRICULAR ANALYTICS

University Advisors Network

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WHAT IS CURRICULAR ANALYTICS?

A way to measure
structural complexity
of a program

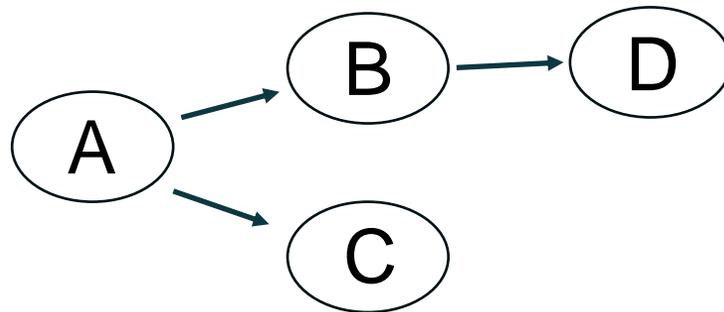
UNDERSTANDING COMPLEXITY

- **Instructional:** how courses in the curriculum are taught and supported (pass/fail rate)
- **Structural:** the extent to which the organization of and links between courses affect a student's ability to progress through curriculum (pre/co-requisites)
- **Applied:** how the curriculum is implemented in advising and student registration (advising practices, hidden prerequisites, conditional rules, frequency of course offerings and curriculum changes)

TERMINOLOGY

Blocking Factor

The number of courses a student is prevented from taking until the gateway course is successfully completed.



Delay Factor

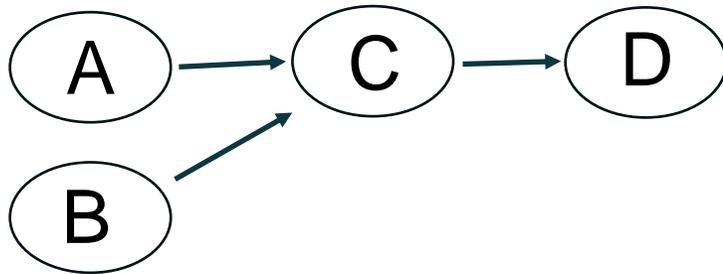
The longest chain of courses connected as requisites.

Course	Blocking Factor	Delay Factor
A	3	3
B	1	3
C	0	2
D	0	3

TERMINOLOGY CONTINUED

Centrality

Requires various prerequisites and is also a prerequisite for many additional courses in the curriculum



Complexity Score

Sum of blocking factor and delay factor

Course	Blocking Factor	Delay Factor	Complexity Score	Centrality
A	2	3	5	0
B	2	3	5	0
C	1	3	4	6
D	0	3	3	0

RESOURCES

- [Curricular Analytics Tool](#)
- Curricular Analytics at USC
 - [USC Curricular Analytics site](#)
 - Request access and data
 - USC Curricular Complexity Average = 113

LOOKING FORWARD

- Awareness
 - Changes may be coming in your programs
 - Prepared for potential conversations with faculty
- Support for faculty
 - Course availability
 - Course needs
 - Identifying gateway courses

THANKS!

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