

Name of domain: Public Policy

Description of domain and relevance of software engineering

The Public Policy application domain gives the SE student an exposure to issues in defining, modeling, and analyzing the impacts of public policy. Software applications are used extensively in policy analysis, such as for data collection and analysis, predictive modeling, system dynamics modeling, cost-benefit analysis, risk analysis, and decision support. There are a number of opportunities to supplement the Public Policy Application Domain courses with liberal arts electives and free electives to earn a minor in Science, Technology and Society/Public Policy.

Courses

<i>Course number</i>	<i>Course title</i>	<i>Prerequisites</i>
Take the following course		
0521-400	Foundations of Public Policy	
Take any two of the following courses		
0521-402	Policy Analysis I	0521-406 (Intro to Qualitative Analysis), 0511-401 or 0511-211 (Microeconomics), 1016-319 (Data Analysis I - Statistics), co-requisite 0511-450 (Benefit-Cost Analysis) or departmental approval
0521-403	Policy Analysis II	0521-402 (Policy Analysis I), 0511-457 (Econometrics) or 1016-320 (Data Analysis II) or equivalent
0521-406	Introduction to Qualitative Policy Analysis	0521-400 (Foundations of Public Policy)
0521-408	Technological Innovation and Public Policy	0521-400 (Foundations of Public Policy)
0521-410	Information and Communication Policy	0521-400 (Foundations of Public Policy)
0521-449	Special Topics in Public Policy	
0521-451	Energy Policy	
0508-441	Science and Technology Policy	
0508-484	Environmental Policy	
0508-540	Science and Technology Policy Seminar	0508-441 (Science and Technology Policy) or 0508-484 (Environmental Policy) or 0521-400 (Foundations of Public Policy)

Domain Prerequisites	
<i>Course number</i>	<i>Course title</i>
None	

Considerations

Before you start on an application domain you should work through the impacts on your schedule. There may be a need to coordinate your co-op blocks based on the quarters in which courses are typically offered as well as considering course pre-requisite chains required within the application domain. Before embarking on a minor you should meet with the department sponsoring the minor to review their current minor requirements, register for the minor, and review scheduling strategies.

There are a number of minor options in Science, Technology, Society/Public Policy. See <http://www.rit.edu/~ppolicy/STSP/ minors.html> for an overview. Some of the courses might count as your required Liberal Arts elective.

Here are the minors most relevant to the SE Public Policy Application Domain:

- Minor in Public Policy, Policy Issues Track (see <http://www.rit.edu/~690www/minors.php3/minors.php3?minor=publ>): Take the courses required for the SE Public Policy application domain, plus one additional course from the list in the minor description, plus 0521-460 (Capstone: Public Policy Minor) as the last course in the minor.
- Minor in Public Policy, Policy Analysis Track (see <http://www.rit.edu/~690www/minors.php3/minors.php3?minor=publ>): Satisfy the SE Public Policy Application Domain by taking the required 0521-400 (Foundations of Public Policy) plus 0521-402 and 403 (Policy Analysis I, II), then take the other required courses for the minor. Note: this track will require more courses, but it will best prepare a student to apply computing to public policy analysis. It could also lead toward a second major in Public Policy.
- Minor in Science, Technology and Environmental Studies (see <http://www.rit.edu/~690www/minors.php3/minors.php3?minor=stes>):
 - Take 0508-211 (Science, Technology & Values) as an elective to satisfy the minor pre-requisite,
 - Satisfy the SE Public Policy Application Domain by taking 0521-400 (Foundations of Public Policy) and two of 0508-441 (Science & Technology Policy), 0508-484 (Environmental Policy), or 0508-540 (Science & Technology Policy Seminar), plus
 - Take three other courses from the list of courses for the minor
- Minor in Science, Technology and Policy (see <http://www.rit.edu/~690www/minors.php3/minors.php3?minor=gstp>): Satisfy the SE Public Policy Application Domain requirement by taking 0521-400 (Foundations of Public Policy) and two of 0521-408 (Technological Innovation and Public Policy), 0521-410 (Information and Communication Policy) or 0521-449 (Special Topics in Public Policy), then take one more course from the following
 - 0508-441 Science & Technology Policy
 - 0508-444 Social Consequences of Technology
 - 0508-445 Biomedical Issues: Science and Technology
 - 0508-482 Energy and the Environment
 - 0508-487 Special Topics in Environmental Studies

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