

TRANSPORTATION PLANNING - CERTIFICATE

The graduate Certificate in Transportation Planning is a multi-disciplinary program aimed at providing students with a substantive base of knowledge needed to be broadly successful in the transportation profession, as well as with specialized instruction tailored to building student skills and capabilities in four critical areas: Multimodal Systems Planning, Transportation & Urban Design, Transportation & Public Policy, and Transit Management. This program will be open to any graduate student at Texas A&M University with an interest in transportation. The certificate is housed in the Center for Housing & Urban Development in the College of Architecture and is developed as a partnership between the College of Architecture, the Department of Civil and Environmental Engineering, the Texas A&M Transportation Institute (TTI), and the Bush School of Government and Public Service.

Students who complete the certificate will be able to identify planning needs and use specialized knowledge to solve transportation planning challenges. Completing the certificate provides students with the substantive base of knowledge needed to be broadly successful in the transportation profession as well as specialized knowledge in one of the four critical areas mentioned above.

Program Requirements

| Code | Title | Semester Credit Hours |
|---|---|-----------------------|
| Required Courses | | |
| PLAN 612 | Transportation in City Planning | 3 |
| Focus Area | | |
| Select nine semester credit hours of a focus area | | 9 |
| Capstone | | |
| PLAN 678 | Applied Transportation Studio: Site Planning and Traffic Impact | 3 |
| Total Semester Credit Hours | | 15 |

Focus Area

Multimodal Systems Planning

| Code | Title | Semester Credit Hours |
|--|---|-----------------------|
| Required | | |
| PLAN 670 | Urban Public Transportation Planning ¹ | 3 |
| Electives | | |
| Select six semester credit hours from the following: | | 6 |
| CVEN 618 | Traffic Engineering: Operations | |
| CVEN 672 | Engineering and Urban Transportation Systems | |
| PLAN 626 | Advanced GIS in Landscape Architecture and Urban Planning | |
| PLAN 650 | Disaster Response Planning | |
| PLAN 673 | Design for Sustainable Transportation | |
| PLAN 674 | Transportation System Analysis | |

PLAN 676 Transportation Investment Decisions

Total Semester Credit Hours 9

¹ Students are advised to take PLAN 670 if available, but PLAN 673 will also satisfy this requirement.

Transportation and Urban Design

| Code | Title | Semester Credit Hours |
|--|--|-----------------------|
| Required | | |
| PLAN 673 | Design for Sustainable Transportation | 3 |
| Electives | | |
| Select six semester credit hours from the following: | | 6 |
| CVEN 617 | Traffic Engineering: Characteristics | |
| CVEN 618 | Traffic Engineering: Operations | |
| CVEN 635 | Street and Highway Design | |
| CVEN 672 | Engineering and Urban Transportation Systems | |
| PLAN 670 | Urban Public Transportation Planning | |
| PLAN 674 | Transportation System Analysis | |
| PLAN 676 | Transportation Investment Decisions | |

Total Semester Credit Hours 9

Transportation Planning and Public Policy

| Code | Title | Semester Credit Hours |
|--|--|-----------------------|
| Required | | |
| PLAN 676 | Transportation Investment Decisions | 3 |
| Electives | | |
| Select six semester credit hours from the following: | | 6 |
| PSAA 611 | Public Policy Formation | |
| PSAA 616 | Managing Workplace Diversity in Public and Nonprofit Organizations | |
| PSAA 617 | U.S. State and Local Government: Institutions and Policy | |
| PSAA 622 | Public Finance | |
| PSAA 634 | Public Management | |
| PLAN 650 | Disaster Response Planning | |

Total Semester Credit Hours 9

Transit Management

| Code | Title | Semester Credit Hours |
|------------------------------|---|-----------------------|
| Required | | |
| Select one of the following: | | 3 |
| PLAN 670 | Urban Public Transportation Planning ¹ | |

| | | |
|------------------------------------|--|----------|
| PLAN 673 | Design for Sustainable Transportation | |
| Electives | | |
| Planning and Civil Engineering: | | |
| Select one of the following: | | 3 |
| CVEN 618 | Traffic Engineering: Operations | |
| CVEN 632 | Transportation Engineering: Economics | |
| CVEN 672 | Engineering and Urban Transportation Systems | |
| PLAN 674 | Transportation System Analysis | |
| Management, Policy and Finance: | | |
| Select one of the following: | | 3 |
| MGMT 630 | Behavior in Organizations | |
| MGMT 639 | Negotiations in Competitive Environments | |
| MGMT 655 | Survey of Management | |
| MGMT 658 | Managing Projects | |
| MGMT 675 | Leadership in Organizations | |
| PLAN 676 | Transportation Investment Decisions | |
| PSAA 611 | Public Policy Formation | |
| PSAA 622 | Public Finance | |
| PSAA 634 | Public Management | |
| PSAA 636 | Grant and Project Management in the Public and Nonprofit Sectors | |
| PSAA 648 | Performance Management in the Public and Nonprofit Sectors | |
| Total Semester Credit Hours | | 9 |

¹ Students are advised to take PLAN 670 if available, but PLAN 673 will also satisfy this requirement.