

# Sustainable Trails Development

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## Graduate Certificate in Sustainable Trails Development

### CERTIFICATE CODE - CG69

Code	Title	Hours
A minimum grade of C- is required in all coursework applied to the certificate.		
RESM 440 & 440L	Foundations of Applied Geographic Information Systems and Foundations of Applied Geographic Information Systems Laboratory	3
LARC 532	Recreation, Trails, and Community Development	3
LARC 534	Sustainable Trails: Design Concepts	3
LARC 535	Sustainable Trails: Design Detailing & Drainage	3
LARC 537	Sustainable Trails: Practicum Experience	3
RPTR 536	Sustainable Trails: Engagement	3
Total Hours		18

## Certificate Learning Outcomes

### SUSTAINABLE TRAILS DEVELOPMENT

1. Summarize the benefits (economic, public health, social) of investing in trails development and outline funding strategies for trail development and facilitate meaningful stakeholder engagement.
2. Assess trail networks for skills progression, responding to site topography and aesthetics and recognizing design features that reduce soil erosion and control hazards from trail construction.
3. Select appropriate construction materials and construction details to minimize environmental impacts and adhere to regulatory requirements.
4. Estimate construction costs related to trail construction, demonstrate understanding of effective written contract agreements, and suggest measures for quality control during construction.
5. Design informative and effective interpretive signs for greenspace.
6. Identify key components of an effective management plan for a trail system, and plan effective strategies for: volunteer management, trail maintenance, greenspace programming, special event planning and broad civic engagement.
7. Strategize for post-build promotion and marketing, ongoing fundraising, and post-build research / assessment.
8. Apply principles of sustainable trail design / development to a real trails project.