

# The Manifold Paths in ESE

## Legend

**Bold font:** Prerequisite courses

**Red:** Prerequisite paths

**Yellow:** Not required but helpful

**Dashed (- or -):** Alternative paths

**Orange:** Instructor permission required

Courses are grouped column-wise roughly by topic

Graduate courses not listed here require deeper preparation — consult your advisor and the course instructor

Math <b>104</b>	Phys <b>150</b> (Phys 170)	<b>112</b> (CIS 110, 120)
Math <b>114</b>	Phys <b>151</b> (Phys 171)	<b>116</b>
Math <b>240</b>		

*General Requirements  
Frosh/Soph Bundle*

