## Chapter 7 Statics
## TIME SCHEDULE

The following schedule is suggested for a three-hour review class.

| Minutes | Topic |
|---|---|
| 5 | INTRODUCTORY CONCEPTS IN MECHANICS, p. 120 |
| | VECTOR GEOMETRY AND ALGEBRA, p. 121 |
| 5 | Addition and Subtraction; Multiplication by a Scalar |
| 5 | Dot Product; Unit Vectors and Projections |
| 5 | Vector and Scalar Equations |
| 5 | The Cross Product |
| 5 | Rectangular Cartesian Components |
| | FORCE SYSTEMS, p. 127 |
| 5 | Types of Forces; Point of Application and Line of Action |
| 10 | Moments of Forces |
| 5 | Resultant Forces and Moments; Couples |
| 5 | Moments about Different Points |
| 5 | Equivalent Force Systems |
| 5 | EQUILIBRIUM, p. 131 |
| 5 | Free-Body Diagrams |
| 10 | Equations of Equilibrium |
| 15 | **Break** |
| | TRUSSES, p. 138 |
| 10 | Equations from Joints |
| 10 | Equation from Sections |
| 5 | COUPLE-SUPPORTING MEMBERS, p. 142 |
| 10 | Twisting and Bending Moments |
| 10 | SYSTEMS WITH FRICTION, p. 145 |
| 5 | DISTRIBUTED FORCES, p. 148 |
| 5 | Single Force Equivalents |
| 10 | Center of Mass and Center of Gravity |
| 10 | Centroids |
| 10 | Second Moments of Area |