The best way to understand what level of questions will be asked is to study old exams. Working through many problems of the old exams is also an effective way of studying. To further aid study, we provide a list of advanced undergraduate textbooks below that you may wish to consult during your study.

**Classical Mechanics:**

* S.T. Thornton, J.B. Marion, Classical Dynamics of Particles and Systems, 5th ed., Brooks Cole, 2003.
* G.R. Fowles, G.L. Cassiday, Analytic Mechanics, 7th ed., Brooks Cole, 2004.

**Electricity and Magnetism:**

* D.J. Griffiths, Introduction to Electrodynamics, 3rd ed., Prentice Hall, 1998.
* J.R. Reitz, F.J. Milford, R.W. Christy, Foundations of Electromagnetic Theory, 4th ed., Addison Wesley, 1992.

**Optics:**

* G.R. Fowles, Introduction to Modern Optics, 2nd ed., Dover, 1989.
* E. Hecht, Optics, 4th ed., Addison Wesley, 2001.

**Quantum Mechanics and Atomic Physics:**

* D.J. Griffiths, Introduction to Quantum Mechanics, 2nd ed., Prentice Hall, 2004.
* C. Cohen-Tannoudji, B. Diu, F. Laloe, Quantum Mechanics (2 vols), Wiley Interscience, 1996.
* R. Liboff, Introductory Quantum Mechanics, 4th ed., Addison Wesley, 2002.

**Thermodynamics and Statistical Mechanics:**

* C. Kittel, H. Kroemer, Thermal Physics, 2nd ed., W.H. Freeman, 1980.
* F. Reif, Fundamentals of Statistical and Thermal Physics, McGraw-Hill, 1965.

**Condensed Matter:**

* C. Kittel, Introduction to Solid State Physics, 8th ed., John Wiley & Sons, 2004.
* N.W. Ashcroft, N.D. Mermin, Solid State Physics, Brooks Cole, 1976.

**Nuclear Physics:**

* K.S. Krane, Introductory Nuclear Physics, John Wiley & Sons, 1987.
* W.N. Cottingham, D.A. Greenwood, An Introduction to Nuclear Physics, 2nd ed., Cambridge University Press, 2001.

**Particle Physics:**

* D.H. Perkins, Introduction to High Energy Physics, 4th ed., Cambridge University Press, 2000.
* D.J. Griffiths, Introduction to Elementary Particles, New Ed., Wiley, 1987.