

# William G. Newton

Updated August 29, 2016

Department of Physics and Astronomy,  
Texas A&M University-Commerce,  
P.O. Box 3011,  
Commerce, TX 75429-3011  
Phone: +1 903 886 5369  
Fax: +1 903 886 5480  
email: [william.newton@tamuc.edu](mailto:william.newton@tamuc.edu)  
website: <http://williamnewton.wordpress.com>

Born: March 6, 1978 – Blackpool, UK  
Nationality: UK; US Permanent resident.

## Current position

2012-present *Assistant Professor*, Texas A&M University-Commerce.

## Areas of specialization

nuclear physics, astrophysics, science education

## Appointments held

2008-2009 *Postdoctoral Researcher*, Texas A&M University-Commerce.  
2009-2012 *Adjunct Assistant Professor*, Texas A&M University-Commerce.

## Education

2002-2008 DPHIL in Physics, University of Oxford  
Thesis Title: “The phase transition to uniform nuclear matter in supernovae and neutron stars”  
Supervisor: Dr. Jirina Rikovska Stone

2000-2002 MSC in Physics, University of Tennessee  
Thesis Title: “Giant resonances in argon isotopes”  
Supervisor: Prof. Michael Strayer

1996-2000 MPHYS, University of Oxford  
Final honours school of natural science: Physics, 2:1  
MPhys project: “The diffusion of stars near the sun”  
Supervisor: Prof. James Binney

## Grants and Proposals

### Funded

- 2016-2017 “A Community-Based Approach to Building the Capacity of Physics Teacher Preparation at Texas A&M University-Commerce”,  
NSF Noyce Teacher Scholarship Program, \$74,948  
PI **W.G. Newton**, co-PIs Robynne Lock and Gilbert Naizer
- 2014-2017 “The impact of short-range correlations in nuclear matter on the equation of state, composition and dynamics of neutron stars”,  
Cottrell College Science Award 22741, \$35,000,  
PI: **W.G. Newton**
- 2011-2014 “Extracting the Symmetry Energy of Dense Neutron-Rich Nuclear Matter from Astrophysical Observations”,  
NASA Astrophysics Theory Program, Grant number 10-ATP10-0095, \$399,870,  
PI: Bao-An Li; Science-PI **W.G. Newton**

### Pending

- 2015 “A Lattice Boltzmann Simulation of Exotic Soft Condensed Matter in Neutron Star Crusts”,  
NSF CAREER, \$491,565  
PI: **W.G. Newton**

## Awards and Fellowships

- 2014 Junior Faculty Research Award
- 2014 Center for Faculty Excellence & Innovation 2014-2015 Faculty Fellowship in Teaching & Learning,  
Project Title: “Innovative Online Masters Courses in Physics for Teachers.”

## Teaching

**Bolded** courses were developed as face-to-face classes from scratch.

**Bolded, italicized** courses were developed from scratch as face-to-face classes and then as online classes.

- 2009-present Texas A&M University-Commerce. Courses taught:  
IS 351 and IS 352: Integrated science (General science classes for education majors)  
ASTR 102 - Stars and the Universe  
**PHYS 2426** Calculus Based Physics II (Electricity and Magnetism), redeveloped as a studio physics class  
**PHYS 515** (General Relativity, graduate level)  
***PHYS 561*** (Astronomy and Astrophysics for Educators, graduate level)  
***PHYS 526*** (Quantum Mechanics for Educators, graduate level)  
***PHYS 565*** (Thermodynamics for Educators, graduate level)

- 2008 Oxford Tutors UK - Tutored high school students in physics and math in preparation for their A-level exams (final high school exams)
- 2003-2008 University of Oxford: College Tutor  
Organized and gave tutorials; set and marked tutorial work and exams.  
Courses taught by undergraduate year (out of the four-year course):
- 1<sup>st</sup> Mathematical Methods; Electromagnetism; Mechanics; Optics
  - 2<sup>nd</sup> Mathematical Methods; Quantum Mechanics; Thermodynamics
  - 3<sup>rd</sup> Condensed Matter Physics; Astrophysics; Special and General Relativity
- 2000-2002 University of Tennessee: Teaching Assistant,  
Gave classes on theoretical aspects of a subject; ran practical labs based on that theory. Set and marked mid-term and final exams.  
Courses: Third-year undergraduate electromagnetism, Astronomy (course meeting science requirements for non-science students):

## Science Education

- 2014-present Co-created Learning Assistant program in Integrated Science Classes for EC-8 pre-service teachers, and secured internal funding to expand into Calculus-based physics courses PHYS 2425 and PHYS 2426 starting Fall 2015.
- 2015-present Redeveloped PHYS 2426 (Calculus based physics II - Electricity and Magnetism) as a studio physics class.
- 2013-present Spearheaded creation of new Master's program for in-service high school physics teachers. Created and taught 3 out of the 6 new core physics classes for this degree, combining advanced physics content with pedagogical activities aimed at engaging high school students in advanced physics concepts. Implementation as a fully online program began in Spring 2015, with one course now being taught fully online.
- 2013-present Overseen improvements of Integrated Science courses for EC-8 pre-service teachers, including redevelopment of lab manual to align with specific competencies on the TExES certification exam.
- 2012-present Redeveloping curriculum of undergraduate physics teacher preparation program at Texas A&M University-Commerce, integrating it with departmental objectives of improving recruitment and retention of undergraduate physics students.
- 2013-2014 Prepared and delivered 4-8 grade science TExES reviews (Texas teacher certification exams).
- 2013 Served on Educational Testing Center committee to review Texas Education Agency's TExES exam questions.

## Supervisory Experience

- 2012-present Texas A&M University-Commerce:  
Supervised 3 REU students; one submitted paper and one published paper have resulted. One REU student presented a poster at the national conference on undergraduate research and gave a talk at the AAAS emerging researchers conference in Washington, DC. The other has presented a talk at the Far West Section of the APS meeting and at the Conference for Undergraduate Women in Physics.
- 2009-present Texas A&M University-Commerce:  
Supervised three Masters students (two graduated) on projects related to symmetry energy effects on neutron star models; four published papers, one submitted paper, a book chapter and two refereed conference proceedings have resulted to date.

2007 University of Oxford:  
Co-supervised Master's student on the project "Equation of State of Proto-Neutron Stars."

## University Service

2015-present Chair, Physics and Astronomy "Doubling Committee" (charged with implementing activities that will double undergraduate enrollment.)  
2015 Chair of Master's thesis committee.  
2014-present Advisor for the Society of Physics Students.  
2014-present Member of Faculty Senate Curriculum Committee.  
2014-present Mentor to new faculty member.  
2014-present Advisor for BS and MS in Physics with Teaching Emphasis.  
2014 Judge at Spring Celebration of Student Writing Workshop.  
2013-2014 Department SACS co-ordinator.  
2013-present Served on 5 Faculty Search Committees.  
2012-present Member of LeoTeach council (co-ordinating science education activities between science and education departments).

## Professional Service

2009-present Referee for Physical Review, Astrophysical Journal, Monthly Notices of the Royal Astronomical Society, Journal of Physics, and Nature Physics.  
2014 Reviewer for 3 chapters of "[Teaching High School Physics](#)" by Carl Wenning and Rebecca Vieyra.  
2013 TExES 4-8 Science Test Question reviewer.

## Professional Affiliations

American Physical Society  
American Astronomical Society  
American Association for the Advancement of Science  
National Science Teachers Association  
American Association of Physics Teachers

## Publications

### Refereed journal articles

*h*-index = 12 (refereed publications)

2015 "Observational constraints on neutron star crust-core coupling during glitches",  
**W. G. Newton**, S. Berger and B. Haskell,  
[MNRAS 454, 4400](#)  
[arXiv:1506.01445](#)

2015 "Critical Density and Impact of  $\Delta(1232)$  Resonance Formation in Neutron Stars",  
Bao-Jun Cai, F.J. Fattoyev, Bao-An Li and **W.G. Newton**,  
[Phys. Rev. C92, 015802](#)  
[arXiv:1501.01680](#)

- 2015 “Efficacy of crustal superfluid neutrons in pulsar glitch models”,  
J. Hooker, **W.G. Newton** and Bao-An Li,  
[MNRAS 449, 3559](#)  
[arXiv:1308.0031](#)
- 2015 “Neutron-proton effective mass splitting in neutron-rich matter at normal density from analyzing nucleon-nucleus scattering data within an isospin dependent optical model”,  
Xiao-Hua Li, Wen-Jun Guo, Bao-An Li, Lie-Wen Chen, F.J. Fattoyev and **W.G. Newton**  
[Phys. Lett. B 743, 408](#)  
[arXiv:1403.5577](#)
- 2015 “Impact of the equation-of-state-gravity degeneracy on constraining the nuclear symmetry energy from astrophysical observables”,  
Xiao-Tao He, F.J. Fattoyev, Bao-An Li and **W.G. Newton**,  
[Phys. Rev. C91, 015810 \(2015\)](#)  
[arXiv:1408.0857](#)
- 2015 “Using neutron star observations to determine crust thicknesses, moments of inertia, and tidal deformabilities”,  
A.W. Steiner, S. Gandolfi, F.J. Fattoyev and **W.G. Newton**,  
[Phys. Rev. C91, 015804 \(2015\)](#)  
[arXiv:1403.7546](#)
- 2014 “Phase transitions in core-collapse supernova matter at sub-saturation densities”,  
Helena Pais, **W.G. Newton** and Jirina R. Stone,  
[Phys. Rev. C90, 065802 \(2014\)](#)  
[arXiv:1411.1885](#)
- 2014 “Quantifying Correlations Between Isovector Observables and the Density Dependence of Nuclear Symmetry Energy away from Saturation Density”,  
F.J. Fattoyev, **W.G. Newton** and Bao-An Li,  
[Phys. Rev. C90, 022801\(R\) \(2014\)](#)  
[arXiv:1405.0750](#)
- 2014 “Stellar oscillations induced by the passage of a fast stellar object”,  
C. A. Bertulani, M. Naizer and **W. G. Newton**,  
[Int. J. Mod. Phys. D23, 10, 1450084 \(2014\)](#)  
[arXiv:1405.0764](#)
- 2014 “Constraints on the symmetry energy from observational probes of the neutron star crust”,  
**W.G. Newton**, J. Hooker, M. Gearheart, K. Murphy, De-Hua Wen, F.J. Fattoyev and Bao-An Li,  
[European Journal of Physics A50, 41](#)
- 2014 “Probing the high-density behavior of symmetry energy with gravitational waves”,  
F.J. Fattoyev, **W.G. Newton** and Bao-An Li,  
[European Journal of Physics A50, 45](#)  
[arXiv:1309.5153](#)
- 2013 “The cooling of the Cassiopeia A neutron star as a probe of the nuclear symmetry energy and nuclear pasta”,  
**W.G. Newton**, K. Murphy, J. Hooker and Bao-An Li,  
[ApJ 779, L4](#)  
[arXiv:1308.2137](#)

- 2013 “Constraining the High-Density Behavior of Nuclear Symmetry Energy with the Tidal Polarizability of Neutron Stars”,  
F. Fattoyev, J. Carvajal, **W.G. Newton** and Bao-An Li,  
[Phys. Rev. C87, 015806](#)  
[arXiv:1210.3402](#)
- 2013 “A survey of the parameter space of the compressible liquid drop model as applied to the neutron star inner crust”,  
**W.G. Newton**, M. Gearheart, and Bao-An Li,  
[ApJS 204, 1, 9](#)  
[arXiv:1110.4043](#)
- 2012 “Generic constraints on the relativistic mean-field and Skyrme-Hartree-Fock models from the pure neutron matter equation of state”,  
F. Fattoyev, **W.G. Newton**, Jun Xu and Bao-An Li,  
[Phys. Rev. C86, 025804](#)  
[arXiv:1205.0857](#)
- 2012 “Sensitivity of the neutron star r-mode instability window to the density dependence of the nuclear symmetry energy”,  
De-Hua Wen, **W.G. Newton**, and Bao-An Li,  
[Phys. Rev. C85, 025801](#)  
[arXiv:1110.5985](#)
- 2011 “Upper limits on the observational effects of nuclear pasta in neutron stars”,  
M. Gearheart, **W.G. Newton**, J. Hooker and Bao-An Li,  
[MNRAS 418, 2343](#)  
[arXiv:1106.4875](#)
- 2009 “Constraining the gravitational binding energy of PSR J0737-3039B using terrestrial nuclear data”,  
**W.G. Newton** and Bao-An Li,  
[Phys. Rev. C80, 065809](#)  
[arXiv:0908.1731](#)
- 2009 “Modeling nuclear “pasta” and the transition to uniform nuclear matter with the 3D Skyrme-Hartree-Fock method at finite temperature: Core-collapse supernovae”,  
**W.G. Newton** and J.R. Stone,  
[Phys. Rev. C79, 055801](#)  
[arXiv:0904.4714](#)
- 2005 “The double pulsar J0737-3039: Testing the neutron star equation of state”,  
Ph. Podsiadlowski, J.D.M. Dewi, P. Lesaffre, J.C. Miller, **W.G. Newton**, J.R. Stone,  
[MNRAS 361, 1243](#)  
[astro-ph/0506566](#)
- 2004 “Giant resonances from TDHF”,  
P.D. Stevenson, M.R. Strayer, J. Rikovska-Stone, **W.G. Newton**,  
[Int. Journ. Mod. Phys. E13, 181](#),  
[nucl-th/0310020](#)

## Book Chapter

- 2011 “The nuclear symmetry energy, the inner crust, and global neutron star modeling”,  
**W.G. Newton**, M. Gearheart, J. Hooker, Bao-An Li,  
In “Neutron Star Crust”, edited by C. A. Bertulani and J. Piekarewicz,  
Nova Publishing, ISBN: 978-1-62081-960-9,  
[arXiv:1112.2018](#)

## Other scientific articles

- 2013 “Neutron stars: A taste of pasta?”,  
**W.G. Newton**,  
*News and Views, Nature Physics* 9, 396

## Selected conference proceedings

- 2015 “Core-collapse supernova matter: light clusters, pasta phase and phase transitions”,  
Helena Pais, Silvia Chiacchiera, Fabrizio Grill, Constanca Providencia, Isaac Vidana, Sidney S. Avancini, Deb-  
ora P. Menezes, **William G. Newton** and Jirina R. Stone  
*Compact Stars in the QCD Phase Diagram IV*  
[arXiv:1503.08753](#)
- 2013 “Constraints on the symmetry energy from neutron star observations”,  
**W.G. Newton**, M. Gearheart, De-Hua Wen and Bao-An Li  
*Journal of Physics: Conference Series* 420, 012145,  
[arxiv:1212.4539](#)
- 2013 “Pure Neutron Matter Constraints and Nuclear Symmetry Energy”,  
F. Fattoyev, **W.G. Newton**, Jun Xu and Bao-An Li,  
*Journal of Physics: Conference Series* 420, 012108,  
[arxiv:1209.2718](#)
- 2013 “Applying the snowplow model for pulsar glitches to constrain nuclear symmetry energy”,  
J. Hooker, **W.G. Newton**, Bao-An Li  
*Journal of Physics: Conference Series* 420, 012153
- 2013 “Probing Nuclear Symmetry Energy and its Imprints on Properties of Nuclei, Nuclear Reactions, Neutron Stars  
and Gravitational Waves”,  
Bao-An Li, Lie-Wen Chen, F. Fattoyev, **W.G. Newton**, Chang Xu,  
*Journal of Physics: Conference Series* 413, 012021,  
[arxiv:1212.1178](#)
- 2011 “Imprints of nuclear symmetry energy on properties of neutron stars”,  
Bao-An Li, Lie-Wen Chen, M. Gearheart, J. Hooker, Che Ming Ko, P.G. Krastev, Wei-Kang Lin, **W.G. New-  
ton**, De-Hua Wen, Chang Xu and Jun Xu,  
INPC2010, July 4-9, 2010, Vancouver, Canada  
*Journal of Physics: Conference Series* 312, 042006,  
[arxiv:1103.4652](#)

- 2009 “Modeling nuclear pasta and the phase transition to uniform nuclear matter with the 3D-Skyrme-Hartree-Fock method”,  
**W.G. Newton**,  
 Proceedings of the 5th Facility of Rare Isotope Beams (FRIB) Workshop on Bulk Nuclear Properties, Michigan State University,  
[AIP Conf. Proc. 1128, 154](#),  
[arxiv:0903.1464](#)
- 2007 “A new study of the transition to uniform nuclear matter in neutron stars and supernovae”,  
**W.G. Newton**,  
[Physics of Particles and Nuclei, 39, 7, 1173](#),  
[arXiv:0708.3212](#)
- 2007 “From microscales to macroscales in 3D: Self-consistent equation of state for supernova and neutron star models”,  
**W.G. Newton**, J.R. Stone, and A. Mezzacappa,  
[Journal of Physics: Conference Series 46, 408](#),  
[arXiv:0708.3197](#)
- 2006 “Sub-nuclear matter in neutron stars and supernovae: nuclear pasta and beyond”,  
**W.G. Newton**,  
[Proceedings of RAGtime 6/7: Workshop on Black Holes and Neutron Stars](#),  
 Editors S. Hledk and Z. Stuchlk, Silesian University in Opava, Czech Republic, ISBN 80-7248-334-X, pp.119

## Presentations

### Invited Talks, Seminars and Colloquia

- Dec 2015 “The nuclear symmetry energy and neutron stars”  
 SINAP-CUSTIPEN Workshop on Clusters and Correlations in Nuclei, Nuclear Reactions and Neutron Stars, Shanghai, China
- Jul 2015 “The crust of neutron stars”,  
 Graduate Seminar, University of Melbourne, Melbourne, Australia
- Feb 2015 “Into the neutron star mantle: in search of super-condensed matter”,  
 University of Texas at Arlington, TX, USA
- Sept 2014 “Into the neutron star mantle: in search of super-condensed matter”,  
 University of Texas at Dallas, TX, USA
- Jul 2014 “[Symmetry energy constraints from observational signatures of the neutron star crust-core transition](#)”,  
 NuSym14: The 4th International Symposium on the Nuclear Symmetry Energy, Liverpool, UK, July 2014
- March 2014 “The physics and observational consequences of the neutron star crust-core boundary layer”,  
 Seminar, Los Alamos National Laboratory, Los Alamos, NM, USA



- March 2014 “The material science of the neutron star crust: searching for observational signatures of condensed nuclear matter”,  
Colloquium, University of Texas San Antonio, San Antonio, TX, USA
- Feb 2014 “The physics and observational consequences of the neutron star crust-core boundary layer”,  
Seminar, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing, MI, USA
- Jun 2013 “The nuclear equation of state: what we can infer from experiments and observation”,  
The Gordon Research Conference on Nuclear Chemistry,  
New London, NH, USA
- Oct 2012 “Measuring nuclear interactions at  $10^{20}$  paces”,  
Seminar, Department of Physics, University of Surrey, UK
- Mar 2012 “Measuring nuclear interactions at  $10^{20}$  paces”,  
Colloquium, Department of Physics and Astronomy, Texas A&M University-Commerce, USA
- Oct 2011 “Why do pulsars glitch?”,  
Colloquium, Department of Physics and Astronomy, Texas A&M University-Commerce, USA
- Oct 2011 “How deep does a pulsar crust go? Using terrestrial experiments to explore the outer layers of a neutron star”,  
Fall Joint Meeting of APS and AAPT and Zone 13 SPS,  
Texas A&M University-Commerce, USA.
- Jul 2011 “[Inner crust composition and transition densities](#)”,  
INT Program INT-11-2b: Astrophysical transients: multi-messenger probes of nuclear physics,  
Seattle, USA.
- Jul 2011 “Nuclear symmetry energy and neutron stars”,  
Seminar, Quarks and Hadrons Group, University of Maryland, USA.
- Jun 2011 “[The neutron star inner crust: symmetry energy dependence of observable properties](#)”,  
NuSYM11: International symposium on nuclear symmetry energy,  
Smith College, USA.
- Oct 2010 “The physics and observable consequences of neutron star crust-core boundary”,  
Seminar, Argonne National Laboratory, USA.
- Oct 2010 “The physics and observable consequences of neutron star crust-core boundary”,  
Seminar, Michigan State University, USA.
- Apr 2009 “Nuclear pasta and the transition to uniform nuclear matter”,  
Seminar, Los Alamos National Laboratory, USA.
- Apr 2007 “Complex microscopic structure in neutron stars and supernovae”,  
Department of Astronomy, University of Central Lancashire, UK
- Jan 2007 “Exploring complex microscopic structure in neutron stars and supernovae with 3D Hartree-Fock”,  
Seminar, Institut de Physique Nucléaire d’Orsay, Paris, France.

Feb 2006 “Complex fluids in a neutron star inner crust”,  
Seminar, Department of Applied Mathematics, University of Southampton, UK.

### Selected Conference Talks

- Oct 2015 “Developing Online Master’s Courses for Physics Teachers”,  
Texas Section of the American Physical Society and the American Association of Physics Teachers,  
Baylor, TX
- Jul 2015 “The neutron star radius and the crust-core boundary”,  
The neutron star radius and all that jazz,  
McGill University, Montreal, Canada
- Aug 2014 [Community submission to Neutron Star and Dense Matter Working Group](#),  
Joint DNP Town Meetings on Nuclear Structure and Nuclear Astrophysics,  
Texas A&M University, College Station, TX
- Dec 2013 “The cooling of the Cas A neutron star as a probe of the symmetry energy and nuclear pasta”, XXVII Texas  
Symposium on Relativistic Astrophysics, Dallas, TX
- Oct 2013 “Tidal interactions during neutron star mergers: equation of state considerations”,  
Joint Fall 2013 Meeting of the Texas Sections of the APS, AAPT, and Zone 13 of the SPS, Brownsville, TX
- Aug 2013 [“Pulsar glitches from a nuclear physics perspective”](#),  
International Workshop on Nuclear Dynamics and Thermodynamics, Texas A&M University, College Station,  
TX, USA
- Jul 2013 [“Constraining the High-Density Behavior of Nuclear Symmetry Energy with the Tidal Polarizability of Neutron Stars”](#),  
NuSym 2013, Michigan State University, East Lansing, MI, USA
- May 2013 “Inferring nuclear matter properties from observations of dynamical neutron star phenomena”,  
NS2013, Amsterdam, Netherlands
- June 2012 [“Symmetry energy aspects of neutron star modeling”](#),  
Compstar 2012: The physics and astrophysics of compact stars  
Tahiti, French Polynesia
- May 2012 [“Combining terrestrial experiments and neutron star observations to constrain the equation of state of asymmetric nuclear matter”](#),  
NN2012, San Antonio, Texas, USA
- May 2011 [“The neutron star inner crust: upper limits on the observational consequences of nuclear pasta”](#),  
Compstar 2011: Gravitational waves and electromagnetic radiation from compact stars,  
INFN Catania, Italy.
- Aug 2010 [“Constraining the gravitational binding energy of PSR J0737-3039B”](#),  
Pan American Study Institute on the physics and astrophysics of rare isotopes,  
Joao Pessoa, Brazil.

- Feb 2009    [“Modeling nuclear pasta and the phase transition to uniform matter with Skyrme-Hartree-Fock”](#),  
Compstar 2009: The crust of compact stars and beyond,  
Universidade de Coimbra, Portugal.
- Nov 2008    [“Modeling nuclear pasta with Skyrme-Hartree-Fock”](#),  
5th FRIB workshop on bulk nuclear properties,  
Michigan State University, USA.
- Feb 2008    [“The transition from homogeneous to inhomogeneous matter in the neutron star crust”](#),  
Compstar 2008: The complex physics of neutron stars,  
Ladek Zdroj, Portugal.
- Sept 2006    [“Matter at sub-nuclear densities and the inner crust of neutron stars”](#),  
Understanding neutron stars workshop,  
University of Alicante, Spain.
- Aug 2006    [“Sub-nuclear matter in neutron stars and supernovae”](#),  
Helmholtz International Summer School: Dense matter in heavy ion collisions and astrophysics,  
Dubna, Russia.
- Jan 2006    [“Sub-nuclear matter in core collapse supernovae”](#),  
Workshop on supernovae,  
International School for Advanced Studies (SISSA), Trieste, Italy.
- Sept 2005    [“The structure of the neutron star inner crust”](#),  
RAGtime 7: Workshop on black holes and neutron stars,  
Opava, Czech Republic.
- Aug 2004    [“Self-consistent equation of state for hot, dense matter”](#),  
Symposium on nuclear equation of state used in astrophysics models,  
Philadelphia, Pennsylvania, USA.

## Other Positions Held

- 2004-2007    Visiting Student Junior Advisor, St. Edmund Hall, University of Oxford:  
Organised welcome and social events for students visiting from abroad; responsible for students welfare during the first few weeks of their visit.
- 2003-2004    Cover Dean, St. Edmund Hall, University of Oxford:  
Responsible for student discipline and welfare on college site.