

Online Astronomy Society Academy

Prospectus 2013

Last updated 22nd April 2013

Updated for GCSE Astronomy

Other notes, due increase in cost of overheads we have had to break up the £12 package and sell the larger courses individually which are summarized below but include

Beginning Spectroscopy - £10

Imaging with a Webcam - £10

Imaging the Sun with a Personal Solar Telescope (also including white light tutorials) - £10

Each course will include Cosmology, Beginning Astronomy, and the Hubble Exercises with enrolment for a year.

Want to buy an academy passport? £30 will give you access to ALL* the courses and any new ones subsequently added for up to a year.

*Offer does NOT include GCSE Astronomy

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Disclaimer

Courses listed and posted were accurate at the time of creation. They are created from tried and tested practices which the trainer/ instructor have followed. Though every precaution is made to ensure accuracy and safety of instructions given, the user should use their own discretion to ensure safety when carrying out tasks.

Needless to say, you should NEVER look at the Sun with any optical device unless directed to do so by the manufacturer. IF you have any doubt, don't! The Sun will blind you or seriously damage your eyesight.

GCSE Astronomy

GCSE Astronomy is being rolled out this year 2013 and will be an online tutor led course. As well as following the course online (textbook provided), there is the requirement to meet your tutor to discuss the coursework that needs to be completed under supervision. You will also be required to attend the written exam as discussed which is in Coventry.

An exact breakdown on this course and what's involved can be obtained online.

Course price is £160 (subject to change in 2014) and includes cost of

- Course material
- Worksheets
- Exam and centre fees
- Tuition
- Examined projects
- Mock Exam
- GCSE Astronomy textbook (soft copy as well!)

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Last updated 04/02/2013

- Certificate at the end

This is a blended learning course

Tutor Led

Tutor: Dr Johanna Jarvis

Not interested in taking exams? Not a problem we can do this for you for £129

Please email any queries to OASAcademy@gmail.com

Beginning Astronomy

Aims

This course offers guidance on beginning Astronomy. At the end of the course the delegate will have knowledge of how to get started in this fascinating field. At the end of the course the novice will have knowledge of not only the basics of astronomy and how to get started but what telescopes are and the different types. They will also know about setting up and how to maintain their instruments. All terminology such as focal length, aperture, calculating magnification will be covered.

This course also goes on to offer knowledge on the following

- Balancing a Telescope
- Aligning a finder
- Collimation
- Basics of Eyepieces
- Telescope Jargon

Course Cost - Free with any paid course

Qualification Pathway: No

Instructor Led: No

Delivery: Online

Setting up a Fork Mounted Telescope

This course is more suited to people purchasing a fork mounted Meade or similar for the first time or who need assistance with using an existing one.

The aim of the course

The delegate will know how to setup and align a Meade tripod and wedge.

Objectives

At the end of this course the delegate will know how to

- Setup and level a tripod

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Last updated 04/02/2013

- Attach and align the wedge North
- Fix the telescope assembly
- Align the finder

Format

This course is video based.

Prior Knowledge requirements

None required

Course under revision, included free delegate subscribes to any other paid course

Observing with a Coronado Personal Solar Telescope and White Light

Aims

The aims of this course are to provide an overall of basic solar imaging using a PST. We start from a discussion of the setup then proceed to look at the actual capture and processing of the images.

Objectives

- The delegate will know how to attach the camera and see where the barlow is attached
- The delegate will know how to capture the image using software that came with the camera
- Delegates will also see how to safely observe sunspots in white light
- The delegate will know how to process the end results

Requirements

This course assumes the delegate is able to attach the t-adaptor to their camera and the Barlow. There is a separate course if not.

The course also assumes the delegate is using a Canon DSLR

Course Cost - £10 delivered online

Qualification Pathway: No

Instructor Led: No

Delivery: Online

Cosmology

This course examines the basics of cosmology, how did we get here, what was the Big Bang. We then move on to discuss Galactic Structure and measurement in astronomy

Basic Cosmology

1. Introduction

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2. The expanding Universe
3. The Big Bang
4. Definitive proof: The Cosmic Microwave Background
5. What lies in the future?

Galaxies, view from a distance

1. Galaxy shape – a useful system of classification
2. Our Earthly perspective
3. The importance of distance to other galaxies
4. Size matters
5. The view brings structure to the Universe

Course Cost - Free when you enrol on one of the paid courses

Qualification Pathway: No

Instructor Led: No

Delivery: Online

Imaging with a webcam

In this course we look at how easy it is to capture a planet using a webcam.

The objectives

By the end of this course the delegate will be able to

- Setup and use a telescope hooked up to a webcam
- Know how best to adjust the image capture software for imaging
- Capture an avi movie of a planet
- Process the avi file into a nice image ready for uploading onto social media

Course Cost - £10 delivered online

Qualification Pathway: No

Instructor Led: No

Delivery: Online

ESA Hubble Exercises

This short array of courses is designed to demonstrate how professional data can be extracted from images. The material is used courtesy of European Space Agency.

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Last updated 04/02/2013

Beginning Spectroscopy

Aims

The aim of this course is to introduce the layman to spectroscopy, to outline what it is, and how to study it.

Objectives

By the end of this course, the delegate will be able to

- Understand that it was Sir Isaac Newton who was first to split light using a prism
- Understand the correlation between colour of light and its wavelength
- Know what the Fraunhofer lines are and their significance
- Understand the basic equipment needed to setup for spectroscopy
- Understand how to setup for spectroscopy
- Recognise the type of data required and what is needed to process it.
- Capturing Spectra using RSpec, a DSLR, and Star Analyser 100

Course Cost - £10 delivered online

Qualification Pathway: No

Instructor Led: No

Delivery: Online

All courses purchased for £10 will include Beginning Astronomy and Cosmology

All the courses can be purchased for £30 and will include access to all other courses as they get added

Course Tutors

We can offer various opportunities to course tutors who wish to expand on our portfolio, by creating a course for us you can market it yourself and make a commission on the sales, superb business opportunity which can create a secondary income

Reseller?

We are always open to proposals from individuals, societies, or organisations looking to resell our courses.