

## Inl. in de bouw en ontw. van sterren

**Faculteit:** Faculteit Natuur- en Sterrenkunde

**ECTS-punten:** 7.5    **Categorie:** 1    **Cursuscode:** NS-151B    **Periode:** 07-02-2005 t/m 22-04-2005 (PER3)

**Toegangseisen:** .

**Voertaal** Nederlands

**Inhoud:**

The course starts with a very brief general introduction to astronomy, and continues with the discussion of birth, evolution and death of stars. First, the observations of stars and stellar clusters are discussed, and their fundamental properties (mass, radius, temperature, age, distance) derived. The formation of stars is described theoretically and observationally. It is then shown how a theory for the structure of stars can be constructed, and how stellar evolution follows from this. The course ends with a discussion of neutron stars and black holes.

**Cursusdoelen:** The goal of the course is first to give the student a rough idea of the methods and subjects of modern astronomy. The second goal is to provide a basic understanding of the structure and evolution of stars; and of the observations and theory on which our knowledge is based. At the end of the course, the student should be able to make simple estimates and computations of stellar properties.

**Contactpersoon:** dr.ir. A.F.M. Arts

**Docent(-en):** prof.dr. F.W.M. Verbunt

**Feedback:**  
during contact hours

**Bereikbaarheid:**  
tel.: 253 5207, e-mail: f.w.m.verbunt@astro.uu.nl

**Inschrijven via OSIRIS Online mogelijk:** Ja

**Inschrijven voor bijvakkers mogelijk:** Ja

Werkvorm	Blok	Groep	Rooster			Gebouw	Zaal
Hoorcollege	PER3	1	08-02-2005 t/m 12-04-2005 10-02-2005 t/m 14-04-2005	Dinsdag	13.00 - 15.00	MIN	208
Practicum	PER3	1	14-02-2005 t/m 11-04-2005	Donderdag	09.00 - 11.00	MIN	208
				Maandag	13.00 - 17.00	MIN	019 (N&S)
Werkcollege	PER3	1	08-02-2005 t/m 12-04-2005 10-02-2005 t/m 14-04-2005	Dinsdag	15.00 - 17.00	MIN	012
				Donderdag	11.00 - 13.00	MIN	012
	2	08-02-2005 t/m 12-04-2005 10-02-2005 t/m 14-04-2005	Dinsdag	15.00 - 17.00	MIN	016	
			Donderdag	11.00 - 13.00	MIN	016	

**Toelichting:** **Algemeen:**  
**Vorbereiding bijeenkomsten:**  
Werkcollege  
study of the lecture material

Toets	Blok	Gelegenheid	Rooster	Gebouw	Zaal
Tentamen	PER3	1			
Tentamen	PER4	2			

**Beoordeling:**

**Aanbevolen materialen:** **Boek**  
A good introductory astronomy book is: An introduction to modern astrophysics; by B.W.Carroll & D.A.Ostie. This is NOT required!

*Aan deze gegevens kunnen geen rechten worden ontleend.*