anybody who ... 

... would like to see immediate real-world involvement in his/her work. 
... would like to learn how to create predictable and fault-tolerant, complex systems. 
... would like to know more about the usage of >95% of all processors.

This course will be given by

Uwe R. Zimmer

Tutoring and labs by

Benjamin Wang

Electronics design by

Mark Turner

Topics

1. Introduction & Real-time languages
2. Physical coupling
3. Interfaces
4. Time & Embodiment
5. Asynchronism
6. Synchronisation
7. Scheduling
8. Resource control
9. Reliability & fault-tolerance

Textbooks (sort of ...)

[Burns 2009]
Alan Burns and Andy Wellings
Real-Time Systems and Programming Languages
Addison Wesley, fourth edition, 2009

[Burns 2007]
Alan Burns & Andy Wellings
Concurrent and Real-Time Programming in Ada
Cambridge University Press, 2007

[McCarrick et al.]
McCarrick, J.W., Singhof, F., & Hughes, J.
Building Parallel, Embedded, and Real-Time Applications with Ada
... plus specific references for each topic (all on the course site).

Resources:

... would like to know more about the usage of >95% of all processors.

Assessment:

- Exams at the end of the course (70%) plus one assignment (30%)
- both are tested in oral exams.