purposes of the universities

Aristoteles

Learning  produce learned men and women
          advancement of knowledge

Virtue    educate in virtue
          code of social, moral and religious conduct

Utility  satisfy material needs of society
          training for high office or profession

Boerhaave Europa
Research based university

von Humboldt  Bildung
Wissenschaft  Lehlfreiheit
Lernfreiheit

Clark W.  Academic Charisma and the Origins of the Research University
University of Chicago Press, 2006
Balance
research-based and learning based university

Academic charisma is:
- published papers
- earning power
- public relations

Professors not professing

Academic “career” in education?

University ranking based on research outcome
Dr. Ir. Jo Ritzen president since 2003

<table>
<thead>
<tr>
<th>Staff</th>
<th>3500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scientific staff</td>
<td>1900</td>
</tr>
<tr>
<td>International staff</td>
<td>30%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Students</th>
<th>13,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>39%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Annual enrolment</th>
<th>4700</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>47%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exchange students</th>
<th>In 6%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out 11%</td>
<td></td>
</tr>
</tbody>
</table>
Problem Based Learning
International orientation
Multidisciplinary research
Health, Medicine and Life Sciences

Humanities and Sciences

University College Maastricht
Maastricht Graduate School of Governance
Department Knowledge Engineering

Psychology and Neuroscience

Law

Arts and Social Sciences

Economics and Business Administration
Bachelor programmes

**Health Care**
- Health Sciences
- European Public Health
- Medicine *(Dutch)*
- Molecular Life Sciences

**Natural Sciences**
- Knowledge Engineering / Computer Science

**Law**
- European Law School
- Tax Law *(Dutch)*
- Dutch Law *(Dutch)*

**Economics and Business**
- Econometrics and Operations Research
- Economics
- Fiscal Economics *(Dutch)*
- International Business

**Behaviour and Society:**
- European Studies
- Psychology *(Dutch)*

**Language and Culture:**
- Arts and Culture
Master programmes

45 master programmes
Leading to MA, MSc, Mphil or LLM
English as language of instruction
Connected to research programmes
Direct admission to PhD
High employability
Faculty of Health Medicine and Life Sciences
Academic Hospital Maastricht
Maastricht University Medical Centre +
Problem based learning

- Student-centred, active learning
- Co-operation in small groups (e.g. tutorial groups)
- Problem-based, project-based and patient-based

- Clinical skills training throughout the curriculum

- Thematic, multidisciplinary curriculum
- Gradual transition from theoretical learning to clinical training

- Assessment is learning - progress test
- Promotion of students’ professional behaviour
- Student mentoring and counselling

### FHML facts and figures medicine 2008

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategory</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students</td>
<td>medicine</td>
<td>2015</td>
</tr>
<tr>
<td>Staff fte</td>
<td>academic</td>
<td>822</td>
</tr>
<tr>
<td></td>
<td>professor</td>
<td>118</td>
</tr>
<tr>
<td></td>
<td>Phd</td>
<td>282</td>
</tr>
<tr>
<td></td>
<td>non academic</td>
<td>492</td>
</tr>
<tr>
<td>Budget</td>
<td>total</td>
<td>140 m€</td>
</tr>
<tr>
<td></td>
<td>education</td>
<td>21 m€</td>
</tr>
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</table>
Problem based learning FHML

Faculty design
small group tutorial rooms
ICT wireless
Skills lab
PBL based library

Faculty Staff
Central educational institute 45 fte
Student/staff ratio 17:1
Professor/Associate Education 5

Research in education SHE
(School for Health professional Education)
## Efficiency educational program medicine

### Students

- annual intake: 340
- international: 25 in/354 out (35/65)
- total: 2000

### Performance

- propaedeutics at 2 y: 93%
- graduate: 92%
- final exam medicine (mean): 6.3 y

### Staff Education

- 145 fte (109/36)

### Budget

- 20.9 M€
Duration PhD cohort 1986-2002

Evaluation PhD students

- MUMC+ (n=650)
  - < 4 jaar: 7,1%
  - 4-6 jaar: 53,4%
  - > 6 jaar: 22,3%
- UM-FdP (n=34)
  - < 4 jaar: 8,8%
  - 4-6 jaar: 64,7%
  - > 6 jaar: 23,5%
- Gezondheid Nederland (n=2105)
  - < 4 jaar: 7,4%
  - 4-6 jaar: 58,7%
  - > 6 jaar: 21,9%
- Gedrag en Maatschappij Nederland (n=1206)
  - < 4 jaar: 6,2%
  - 4-6 jaar: 46,2%
  - > 6 jaar: 25,7%
## Follow up alumni

<table>
<thead>
<tr>
<th>Cohort</th>
<th>91</th>
<th>01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working</td>
<td>88</td>
<td>99 %</td>
</tr>
<tr>
<td>medical practice</td>
<td>94</td>
<td>99</td>
</tr>
<tr>
<td>job satisfaction</td>
<td>88</td>
<td>93</td>
</tr>
<tr>
<td>outside region</td>
<td>67</td>
<td>60</td>
</tr>
<tr>
<td>Knowledge</td>
<td></td>
<td>76</td>
</tr>
<tr>
<td>Skills</td>
<td></td>
<td>84</td>
</tr>
<tr>
<td>Again MF-UM</td>
<td>78</td>
<td>80</td>
</tr>
<tr>
<td>Studierenden-Urteile</td>
<td>Bewertung</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>Betreuung durch Lehrende</td>
<td>2,3</td>
<td></td>
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<tr>
<td>Betreuung im Patienten-Unterricht</td>
<td>1,8</td>
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<tr>
<td>Kontakt zu Studierenden</td>
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<tr>
<td>Lehrangebot</td>
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<tr>
<td>Forschungsbezug</td>
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<td>Studienorganisation</td>
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<tr>
<td>Berufsbezug</td>
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<tr>
<td>Verzahnung Vorklinik-Klinik</td>
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<td>Einbeziehung in Lehrevaluation</td>
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<tr>
<td>E-Learning</td>
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<td>Bibliotheksausstattung</td>
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<td>Räume</td>
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<tr>
<td>Behandlungsräume</td>
<td>1,9</td>
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<tr>
<td>Laborausstattung</td>
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<tr>
<td>Skills Labs</td>
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<td></td>
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<tr>
<td>IT-Infrastruktur</td>
<td>2,3</td>
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<tr>
<td>Unterstützung für Auslandsstudium</td>
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<tr>
<td>Studiensituation insgesamt</td>
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<td></td>
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</tbody>
</table>
CHE Ranking 2009

Education quality (10 parameters)

Proximity to center defines top ranking
education  focus on quality

Students
portfolio mentorship
selection top 10%
decentral selection
student fellowship

year 1
honours
graduate entry program
year 4/6

Staff
evaluation tutors
teacher professionalism
assistent professor program
teach the teacher

pc  edi/discipl
planning career
faculty
affiliated hospitals
FHML development education

Honoursprogramme

Masters MLS combination Bio-medical researchmasters
   Researchmaster Cardiovascular biology and medicine
   Researchmaster Nutrition and Metabolism

Medicine 4 year graduate entry programme

Scholarship Programme medicine Saudi Arabia

TUFH international network medical education
## Output scientific research 2007

<table>
<thead>
<tr>
<th>Wi-1 publications</th>
<th>1524</th>
</tr>
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<tbody>
<tr>
<td>i.f. 3 – 5</td>
<td>388</td>
</tr>
<tr>
<td>5 – 10</td>
<td>229</td>
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<tr>
<td>&gt; 10</td>
<td>44</td>
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<tr>
<td>PhD Thesis</td>
<td>125</td>
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</table>
Balance
research-based and learning based university

Academic charisma is:  teaching
published papers
earning power
public relations

Professors are professing as teaching role models

Academic career in education (clinician teacher)

University ranking based on research and education