**Instructions for filling in individual learning outcomes prior to admission to doctoral studies (degree of licentiate)/
Instructions for filling in goal achievement at the annual follow-ups of your individual study plan**

Like all doctoral students in Sweden, you must meet the national outcomes during your doctoral studies. You will not meet some of the outcomes until your licentiate seminar. To meet the national outcomes, you and your supervisor must, prior to your admission to doctoral studies, articulate individual learning outcomes and identify the activities you will be engaging in to reach them. Your individual outcomes and activities are tools to help you meet the national outcomes. **Specify your individual outcomes and activities in the matrix in Section 2.** Your matrix for goal achievement will accompany you throughout your doctoral studies until you defend your licentiate thesis.

When filling in the individual outcomes, proceed from the same headings as in the national outcomes: ***”knowledge and understanding”, ”competence and skills”, and ”judgement and approach***.” You must have at least one individual learning outcome under each heading. Enter the activities that you, your supervisor and your examiner have agreed on. The individual learning outcomes and activities are to proceed from your doctoral project: What does the project contain, which specific methods do you need to better acquaint yourself with, what knowledge do you need to build on, what literature do you need to become more familiar with, what seminar series and conferences do you plan to take part in, will you be spending time in another research unit during your doctoral period, etc.? *Keep in mind that you are to follow up your individual learning outcomes on an annual basis and revise them if needed.*

The enclosure to the matrix offers examples of individual learning outcomes for three doctoral students at the faculty (towards a degree of doctor). Take these examples as a way of thinking and proceed from the specifics of your project to devise your own individual learning outcomes.

**Do not fill in Section 1 before you are admitted – fill it in at your annual follow-ups,** and prior to your licentiate seminar. The idea is for you to consult with your reference group at the annual follow-ups to boldface the appropriate digit from 0 to 4 as a reflection of how far you have got in achieving the national outcomes.

If you are not pursuing full-time doctoral studies, i.e. so that you have more follow-ups than the two regular follow-ups, add extra rows to the matrix to indicate the progress that you have made each year. Do the same if you and your supervisor would like to do follow-ups more often than once a year.

Your department will file the matrix along with the forms for follow-up.

Make sure to enclose a copy of the matrix when you send in your application to defend your licentiate thesis. Keep in mind that some national outcomes will not be examined before your licentiate seminar. Thus, not all outcomes will be at level 4 when you apply for defence of your licentiate thesis. The examining committee is responsible for reviewing and examining your licentiate thesis and defence. The national outcomes are to form the basis of this assessment.

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| Name of the doctoral student      | Swedish social security no.      |

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| Date of review of goal achievement      |

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| Date of review of goal achievement      |

**Section 1:
Do not fill in before you are admitted. Keep in mind: Fill in at the annual follow-ups.**

**ACTIVITIES FOR THE PURPOSE OF REACHING THE NATIONAL AND THE FACULTY’S OUTCOMES**

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| **NATIONAL OUTCOMES (1-10**) | **ACTIVITIES** (relevant to the outcome) | **Progress towards goal achievement**0=not planned1=somewhat achieved/planned2=halfway achieved 3=almost achieved4=achieved | **REMARKS** |
| **Knowledge and understanding** |
| ***Outcome 1:*** *Demonstrate knowledge and understanding in the field of research* | Literature courseSeminars+journal club     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 2:*** *Demonstrate current specialist knowledge in a limited area of the field of research*  | Literature courseLaboratory experiment courseGood Clinical Practice courseData collection/Laboratory work Research visit at another universityClinical research      Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 3:*** *Demonstrate specialised knowledge of research methodology in general*  | Mandatory course in research methodology and philosophy of science      |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 4:*** *Demonstrate specialised knowledge of the methods of the specific field of research in particular* | Course in statistics and methodologyPresentation at conferences     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| **NATIONAL OUTCOMES (1-10**) | **ACTIVITIES** (relevant to the outcome) | **Progress towards goal achievement**0=not planned1=somewhat achieved/planned2=halfway achieved 3=almost achieved4=achieved | **REMARKS** |
| **Competence and skills** |
| ***Outcome 5:*** *Demonstrate the ability to identify and formulate issues with scholarly precision critically, autonomously and creatively, and to plan and use appropriate methods to undertake a limited piece of research and other qualified tasks within predetermined time frames in order to contribute to the formation of knowledge as well as to evaluate this work* | Seminars+journal clubAnnual follow-upCourse in academic writingData collection/Laboratory workCourse in writing research applications Clinical research      Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 6:*** *Demonstrate the ability in both national and international contexts to present and discuss research and research findings in speech and writing and in dialogue with the academic community and society in general* | SeminarsRequired presentation at conferencesResearch visit at another university     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 7:*** *Demonstrate the skills required to participate autonomously in research and developmental work and to work autonomously in some other qualified capacity* | Participation in study design and datacollectionLicentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| **NATIONAL OUTCOMES (1-10**) | **ACTIVITIES** (relevant to the outcome) | **Progress towards goal achievement**0=not planned1=somewhat achieved/planned2=halfway achieved 3=almost achieved4=achieved | **REMARKS** |
| ***Judgement and approach*** |  |  |
| ***Outcome 8:*** *Demonstrate the ability to make assessments of ethical aspects of his or her own research* | Mandatory course in ethicsLaboratory experiment courseGood Clinical Practice course Clinical research     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 9:*** *Demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used* | Laboratory experiment courseGood Clinical Practice courseData collection/Laboratory workResearch visit at another universityClinical research     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| ***Outcome 10:*** *Demonstrate the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning* | Data collection/Laboratory workCourse in academic writingCourse in writing research applicationsLiterature course     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 |       |
| Year 2: |  0 1 2 3 4 |       |

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| **FACULTY OF MEDICINE’S OUTCOMES (11-13)** | **ACTIVITIES** (relevant to the outcome) | **Progress towards goal achievement**0=not planned1=somewhat achieved/planned2=halfway achieved 3=almost achieved4=achieved | **REMARKS** |
| **Outcome 11:** *Demonstrate knowledge in the field of general scientific theory and in the field of medical science in particular* | Mandatory course in research methodology and philosophy of sciencePresentation at conferencesSeminars      |

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| Year 1: |  0 1 2 3 4 | Remark |
| Year 2: |  0 1 2 3 4 | Remark |

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| **Outcome 12:** *Demonstrate an ability to relate the doctoral student’s own research to other current medical research and by extension to clinical application and other social benefit* | Mandatory course in research methodology and philosophy of scienceData collection/Laboratory workClinical research     Licentiate thesis and seminar |

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| --- | --- | --- |
| Year 1: |  0 1 2 3 4 | Remark |
| Year 2: |  0 1 2 3 4 | Remark |

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| **Outcome 13:** *Demonstrate an ability to relate to the complexity of medical research, its ethical aspects and its impact on individuals and society* | Seminars+Journal clubMandatory course in ethicsLaboratory experiment courseClinical research     Licentiate thesis and seminar |

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| Year 1: |  0 1 2 3 4 | Remark |
| Year 2: |  0 1 2 3 4 | Remark |

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**Section 2:**

**Individual learning outcomes are to be filled in prior to admission. The outcomes may be revised at annual follow-ups.**

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| **INDIVIDUAL LEARNING OUTCOMES** | **ACTIVITIES** | **REMARKS** |
| **KNOWLEDGE AND UNDERSTANDING** |  |
|       |       |       |
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|       |       |       |
| **INDIVIDUAL LEARNING OUTCOMES** | **ACTIVITIES** | **REMARKS** |
| **COMPETENCE AND SKILLS** |
|       |       |       |
|       |       |       |
|       |       |       |
| **INDIVIDUAL LEARNING OUTCOMES** | **ACTIVITIES** | **REMARKS** |
| **JUDGEMENT AND APPROACH** |
|       |       |       |
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