

Survey of Science and Agriculture Graduates, 2004



NIHERST
NATIONAL INSTITUTE
OF HIGHER EDUCATION
RESEARCH SCIENCE AND TECHNOLOGY
INCORPORATED BY ACT OF PARLIAMENT NO. 28 1984

Copyright © April 2005 by NIHERST

NIHERST
4 Serpentine Place
St. Clair
Port of Spain
Trinidad

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, or stored in a database or retrieval system without the prior written permission of NIHERST.

Foreword

In this publication, the National Institute of Higher Education, Research, Science and Technology (NIHERST) presents the results of the Survey of Science and Agriculture Graduates, 2004. This study is the third of its kind to be conducted by NIHERST; similar tracer studies of graduates from the Faculty of Engineering were undertaken in 1989 and 2001.

The frame of the study included all Trinidad and Tobago nationals who graduated from the Faculty of Science and Agriculture of The University of the West Indies (UWI) over the period, 1999-2003. This sample survey was designed to obtain information on the current status of the science and agriculture graduates and included data on the following characteristics: gender, age, area of specialisation, employment status, length of time taken to acquire first job, sector of employment, income levels, job satisfaction, relevance of academic qualifications and graduates pursuing further education. Key indicators of job mobility, migration and under-employment were also monitored.

In keeping with official policy for the overall development of Trinidad and Tobago's human resource capacity in science and technology, this study focuses on useful information on the status, supply and demand for UWI science and agriculture graduates of 1999-2003. It also provides a framework from which further studies can be undertaken, in addition to data on the relevance of local academic programmes to the actual job market in Trinidad and Tobago.

This information can, therefore, assist researchers, policy-makers, educators and academicians engaged in curriculum reform and development.

NIHERST wishes to thank UWI and the science and agriculture graduates who willingly provided the data collated in this report.

NIHERST
Science and Technology Statistical Unit
#8 Serpentine Road, St Clair
Phone: 868-628-1154
e-mail: stresearch@niherst.gov.tt
website: <http://niherst.gov.tt>

Maureen Manchouk
President

Executive Summary

- * Of the sample of Science and Agriculture graduates surveyed (440), 332 or 75% responded and of these 109 (33%) were males and 223 (67%) were females, representing a ratio of 1 male to 2 females.
- * Females out-numbered their male counterparts significantly in all areas of specialisation except Computer Science.
- * The most popular areas of specialisation among the graduates were Chemistry (21%) and Computer Science (21%).
- * The majority of males (37%) majored in Computer Science while females (23%) opted for Chemistry.
- * Twelve percent (12%) of the graduates had migrated.
- * A job mobility rate of 46% was observed; this was most significant amongst Chemistry and least amongst Mathematics majors.
- * As at 1st March, 2004, the unemployment rate of 6% amongst the graduates was below the national figure of 10.2% for the 1st quarter, 2004.
- * A substantial percentage (64%) of the majors had obtained employment within the same year of graduation.
- * Public agencies provided approximately 60% of the graduates with their first job opportunities while the private sector absorbed 40%.
- * A significant proportion (45%) of the faculty's graduates reported gross monthly incomes of under \$4,000 in their first jobs. However, the modal income of males was \$4,000-\$5,999 compared with less than \$4,000 for females.
- * Approximately one third of all majors (36%) indicated that their first employment was less than 50% related to their area of specialisation.
- * Most majors (46%) indicated that the subject area of specialization was the main reason for their job recruitment.
- * Over one third of the graduates gave a medium rating to 'theory content' (43%), 'laboratory content' (36%), 'project work' (39%) and 'research work' (38%) as components of university education that contributed to their ability to cope with their jobs. 'Guidance from lecturers' (43%) and 'computer training' (37%) received a low rating.

- * Data on the components of job satisfaction reflected high rating in both ‘interesting work’ and ‘job security’, while ‘income’, ‘working conditions’ and ‘career advancement’ received medium rating by the graduates.
- * Of the response from the 332 Science and Agriculture majors who graduated with a first degree between 1999-2003, 14% had obtained post-graduate qualifications mainly at the M.Sc. level (74%) in Agricultural sciences, Botany, Zoology and Chemistry.
- * The survey data also indicate that 34% of the majors were pursuing post-graduate studies, approximately half at the M.Sc. level (48%) and one quarter (24%) at the M.Phil. level.
- * Sixty percent, (60%) of the graduates had obtained or were pursuing post-graduate qualifications in fields similar to their first degrees, 16% were in Social Sciences and 11% in Engineering programmes.

Table of Contents

| | Page No. |
|---|----------|
| Foreword | i |
| Executive Summary | iii |
| Methodology | xiii |
| Table | |
| 1 Total Graduates by Major and Year | 1 |
| 1a Percentage of Graduates by Major and Year - Row percentage of Table 1 | 2 |
| Chart 1. Percentage of Graduates by Year within Major | 3 |
| 1b Percentage of Graduates by Major and Year - Column percentage of Table 1 | 4 |
| Chart 2. Percentage of Graduates by Major within Year | 5 |
| 2 No. of Graduates by Major and Year | 6 |
| 2a Percentage of Graduates by Major and Year - Row percentage of Table 2 | 7 |
| Chart 3. Percentage of Graduates by Year within Major | 8 |
| 2b Percentage of Graduates by Major and Year - Column percentage of Table 2 | 9 |
| Chart 4. Percentage of Graduates by Major within Year | 10 |
| 3 No. of Graduates by Major and Year - Males | 11 |
| 3a Percentage of Graduates by Major and Year - Males - Row percentage of Table 3 | 12 |
| Chart 5. Percentage of Graduates by Year within Major - Males | 13 |
| 3b Percentage of Graduates by Major and Year - Males - Column percentage of Table 3 | 14 |
| Chart 6. Percentage of Graduates by Major within Year - Males | 15 |
| 4 No. of Graduates by Major and Year - Females | 16 |
| 4a Percentage of Graduates by Major and Year - Females - Row percentage of Table 4 | 17 |
| Chart 7. Percentage of Graduates by Year within Major - Females | 18 |
| 4b Percentage of Graduates by Major and Year - Females - Column percentage of Table 4 | 19 |
| Chart 8: Percentage of Graduates by Major within Year - Females | 20 |

| | | |
|-----|--|----|
| 5 | No. of Graduates by Age and Year | 21 |
| 5a | Percentage of Graduates by Age and Year | 22 |
| | Chart 9. Percentage of Graduates by Age | 23 |
| 6 | No. of Graduates by Age and Year - Males | 24 |
| 6a | Percentage of Graduates by Age and Year - Males | 25 |
| | Chart 10. Percentage of Graduates by Age - Males | 26 |
| 7 | No. of Graduates by Age and Year - Females | 27 |
| 7a | Percentage of Graduates by Age and Year - Females | 28 |
| | Chart 11. Percentage of Graduates by Age - Females | 29 |
| 8 | No. of Graduates with A'Levels by Subject and Gender | 30 |
| 8a | Percentage of Graduates with A'Levels by Subject and Gender | 31 |
| | Chart 12. Percentage of Graduates with A'Levels by Subject | 32 |
| 9 | No. of Graduates by Major and Employment Status | 33 |
| 9a | Percentage of Graduates by Major and Employment Status | 34 |
| | Chart 13. Percentage of Graduates by Major and Employment Status | 35 |
| 10 | No. of Graduates by Major and Employment Status - Males | 36 |
| 10a | Percentage of Graduates by Major and Employment Status - Males | 37 |
| | Chart 14. Percentage of Graduates by Major and Employment Status - Males | 38 |
| 11 | No. of Graduates by Major and Employment Status - Females | 39 |
| 11a | Percentage of Graduates by Major and Employment Status - Females | 40 |
| | Chart 15. Percentage of Graduates by Major and Employment Status - Females | 41 |
| 12 | No. of Graduates by Year and First Employment | 42 |
| 12a | Percentage of Graduates by Year and First Employment | 43 |
| | Chart 16. Percentage of Graduates with First Job in Year Graduated | 44 |
| 13 | No. of Graduates by Year and First Employment - Males | 45 |
| 13a | Percentage of Graduates by Year and First Employment - Males | 46 |

| | | |
|-----|--|----|
| | Chart 17. Percentage of Graduates with First Job in Year - Males | 47 |
| 14 | No. of Graduates by Year and First Employment - Females | 48 |
| 14a | Percentage of Graduates by Year and First Employment - Females | 49 |
| | Chart 18. Percentage of Graduates with First Job in Year Graduated - Females | 50 |
| 15 | No of Graduates by Major and Sector of Employment - First Job | 51 |
| 15a | Percentage of Graduates by Major and Sector of Employment - First Job | 52 |
| | Chart 19. Percentage of All Majors by Sector of Employment - First Job | 53 |
| 16 | No of Graduates by Major and Sector of Employment - First Job - Males | 54 |
| 16a | Percentage of Graduates by Major and Sector of Employment - First Job - Males | 55 |
| | Chart 20. Percentage of All Majors by Sector of Employment - First Job - Males | 56 |
| 17 | No of Graduates by Major and Sector of Employment - First Job - Females | 57 |
| 17a | Percentage of Graduates by Major and Sector of Employment - First Job - Females | 58 |
| | Chart 21. Percentage of All Majors by Sector of Employment - First Job - Females | 59 |
| 18 | No. of Graduates by Major and Gross Monthly Income - First Job | 60 |
| 18a | Percentage of Graduates by Major and Gross Monthly Income - First Job | 61 |
| | Chart 22. Percentage of All Majors by Gross Monthly Income - First Job | 62 |
| 19 | No. of Graduates by Major and Gross Monthly Income - First Job - Males | 63 |
| 19a | Percentage of Graduates by Major and Gross Monthly Income - First Job - Males | 64 |
| | Chart 23. Percentage of All Majors by Gross Monthly Income - First Job - Males | 65 |
| 20 | No. of Graduates by Major and Gross Monthly Income - First Job - Females | 66 |
| 20a | Percentage of Graduates by Major and Gross Monthly Income - First Job - Females | 67 |
| | Chart 24. Percentage of All Majors by Gross Monthly Income - First Job - Females | 68 |
| 21 | No. of Graduates by Major and Relevance of University Education to First Job | 69 |
| 21a | Percentage of Graduates by Major and Relevance of University Education to First Job | 70 |
| | Chart 25. Percentage of All Majors by Relevance of University Education to First Job | 71 |
| 22 | Percentage of Graduates by Major and Reason for Changing Job | 72 |

| | | |
|-----|---|----|
| 23 | No. of Graduates by Major and Industry of Employment | 73 |
| 23a | Percentage of Graduates by Major and Industry of Employment | 74 |
| | Chart 26. Percentage of All Majors by Industry of Employment | 75 |
| 24 | No. of Graduates by Major and Gross Monthly Income | 76 |
| 24a | Percentage of Graduates by Major and Gross Monthly Income | 77 |
| | Chart 27. Percentage of All Majors by Gross Monthly Income | 78 |
| 25 | Percentage of Graduates by Major and Gross Monthly Income - Males | 79 |
| 26 | Percentage of Graduates by Major and Gross Monthly Income - Females | 80 |
| | Chart 28. Percentage of All Majors by Gender and Gross Monthly Income | 81 |
| 27 | Percentage of Graduates by Major and Relevance of University Education to Job | 82 |
| | Chart 29. Percentage of All Majors by Relevance of University Education to Job | 83 |
| 28 | Percentage of Graduates by Major and Number of Employers | 84 |
| | Chart 30. Percentage of All Majors by Number of Employers | 85 |
| 29 | Percentage of Graduates by Major and Most Important Reason for Recruitment | 86 |
| | Chart 31. Percentage of Graduates by Most Important Reason for Recruitment | 87 |
| 30 | Percentage Rating of the Contribution of Components of University Education to Cope with Job All Majors | 88 |
| | Chart 32. Percentage Rating of the Contribution of Components of University Education to Cope with Job - All Majors | 89 |
| 30a | Percentage Rating of the Contribution of Components of University Education to Cope with Job Agriculture Majors | 90 |
| 30b | Percentage Rating of the Contribution of Components of University Education to Cope with Job Computer science Majors | 91 |
| 30c | Percentage Rating of the Contribution of Components of University Education to Cope with Job Mathematics Majors | 92 |
| 30d | Percentage Rating of the Contribution of Components of University Education to Cope with Job | |

| | | |
|-----|---|-----|
| | Biochemistry Majors | 93 |
| 30e | Percentage Rating of the Contribution of Components of University Education to Cope with Job Biology and Environmental and Natural Resources Management Majors | 94 |
| 30f | Percentage Rating of the Contribution of Components of University Education to Cope with Job Botany and Zoology Majors | 95 |
| 30g | Percentage Rating of the Contribution of Components of University Education to Cope with Job Chemistry Majors | 96 |
| 30h | Percentage Rating of the Contribution of Components of University Education to Cope with Job Physics Majors | 97 |
| 31 | Percentage Rating of Components of Job Satisfaction | 98 |
| | Chart 33. Percentage Rating of Components of Job Satisfaction | 99 |
| 32 | No. of Graduates by Major and Post-graduate Qualification | 100 |
| 32a | Percentage of Graduates by Major and Post-graduate Qualification | 101 |
| | Chart 34. Percentage of Graduates by Post-graduate Qualification and Gender | 102 |
| 33 | No. of Graduates by Major and Post-graduate Qualification - Males | 103 |
| 33a | Percentage of Graduates by Major and Post-graduate Qualification - Males | 104 |
| 34 | No. of Graduates by Major and Post-graduate Qualification - Females | 105 |
| 34a | Percentage of Graduates by Major and Post-graduate Qualification - Females | 106 |
| 35 | No. of Graduates by Major and Level of Post-graduate Qualification Obtained | 107 |
| 35a | Percentage of Graduates by Major and Level of Post-graduate Qualification Obtained | 108 |
| | Chart 35. Percentage of All Majors by Level of Post-graduate Qualification Obtained | 109 |
| 36 | No. of Graduates by Major and Level of Post-graduate Qualification Pursued | 110 |
| 36a | Percentage of Graduates by Major and Level of Post-graduate Qualification Pursued | 111 |
| | Chart 36. Percentage of Graduates by Level of Post-graduate Qualification Pursued | 112 |
| 37 | No. of Graduates by Field and Post-graduate Qualification Obtained or Pursuing | 113 |
| 37a | Percentage of Graduates by Field and Post-graduate Qualification Obtained or Pursuing | 114 |

| | | |
|-----|--|-----|
| 38 | No. of Graduates by Major and Reason for Not Pursuing Post-graduate Qualification | 115 |
| 38a | Percentage of Graduates by Major and Reason for Not Pursuing Post-graduate Qualification | 116 |
| | Chart 37. Percentage of All Majors by Reason for Not Pursuing Post-graduate Qualification | 117 |
| 39 | No. of Post-Graduates by Major and Country of Awarding Institution of Qualification | 118 |
| 39a | Percentage of Post-Graduates by Major and Country of Awarding Institution of Qualification | 119 |
| | Chart 38. Percentage of All Majors by Country of Awarding Institution of Qualification | 120 |
| 40 | No. of Post-Graduates by Major and Place of Residence | 121 |
| 40a | Percentage of Post-Graduates by Major and Place of Residence | 122 |

METHODOLOGY

Introduction

The Survey of Science and Agriculture Graduates, 2004 is the third in a series of tracer studies conducted by NIHERST. Similar to previous studies, this graduate tracer enquiry was undertaken to assess the current status of the output of science and agriculture graduates for the five-year period, 1999-2003. This methodology describes the objectives, scope, coverage, data collection and processing of the results of the study.

Objectives

The major objectives of the study were to determine:

- ✱ the employment status of Trinidad and Tobago nationals who graduated from the Faculty of Science and Agriculture, UWI, from 1999 to 2003,
- ✱ a career profile of these graduates based, inter alia, on occupation, income, the length of time taken to acquire first job and sector of employment,
- ✱ migration and job mobility,
- ✱ relevance of academic qualifications and the level of job satisfaction and
- ✱ the number of graduates pursuing further education by field of study.

Scope/Coverage

The frame for the study was obtained from UWI. It contained a total of 1103 Trinidad and Tobago nationals who graduated between 1999-2003 in the various areas of specialisation in science and agriculture. These include:

- * Agriculture
- * Computer Science
- * Mathematics
- * Biochemistry
- * Biology and Environmental and Natural Resources Management
- * Botany and/or Zoology
- * Chemistry
- * Physics

A 40% sample was selected by systematic random sampling with due consideration being taken to reflect the population by year of graduation and area of specialisation

Table A shows the population and response rate by year graduated while Table B gives the percentages. Of the total 1103 graduates, 440 or 40% were surveyed. Three hundred and thirty-two (332) graduates or 75% responded and of the non-response of 108 graduates or 25%, 22 or 5% could not be contacted, 52 or 12% had migrated and 34 or 8% refused to participate.

Table A: No. of Graduates Surveyed, Response and Non-Response by Year

| Year graduated | No. of graduates | | | | | | |
|----------------|------------------|------------|------------|--------------|------------|-----------|-----------|
| | Population | Surveyed | Responded | Non-response | | | |
| | | | | Total | No contact | Migrated | Refused |
| All Years | (1) 1103 | (2) 440 | (3) 332 | (4) 108 | (5) 22 | (6) 52 | (7) 34 |
| 1999 | 228 | 92 | 65 | 27 | 3 | 20 | 4 |
| 2000 | 246 | 99 | 70 | 29 | 7 | 12 | 10 |

| | | | | | | | |
|------|-----|----|----|----|---|---|----|
| 2001 | 224 | 90 | 67 | 23 | 3 | 8 | 12 |
| 2002 | 209 | 85 | 66 | 19 | 5 | 8 | 6 |
| 2003 | 196 | 74 | 64 | 10 | 4 | 4 | 2 |

Table B: Percentage of Graduates Surveyed, Response and Non-Response by Year

| Year graduated | Percentage of graduates | | | | | | |
|----------------|-------------------------|-----------|-----------|--------------|------------|-----------|----------|
| | Population | Surveyed | Responded | Non-response | | | |
| | | | | Total | No contact | Migrated | Refused |
| All Years | (1) 100 | (2) 40 | (3) 75 | (4) 25 | (5) 5 | (6) 12 | (7) 8 |
| 1999 | 100 | 40 | 71 | 29 | 3 | 22 | 4 |
| 2000 | 100 | 40 | 71 | 29 | 7 | 12 | 10 |
| 2001 | 100 | 40 | 74 | 26 | 3 | 9 | 13 |
| 2002 | 100 | 41 | 78 | 22 | 6 | 9 | 7 |
| 2003 | 100 | 38 | 86 | 14 | 5 | 5 | 3 |

Data Collection

A draft questionnaire was designed to incorporate the underlying objectives and a pilot survey was conducted. The final questionnaire was mailed to each graduate and subsequently monitored through personal contacts, the telephone and e-mail.

Data Processing

As completed questionnaires were collected, data were edited for consistency and omissions. Where discrepancies were identified, questionnaires were returned to the field for verification and correction as necessary. Edited data were captured in the Statistical Package for the Social Sciences (SPSS) version 11.0 software which was used to produce the tabulations in this report.

Survey Results

The results of the survey are presented in the various tabulations and graphics which follow.

Table 1: Total Graduates by Major and Year

| Major | Total | Year graduated | | | | |
|---------------------------|-------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 1103 | 227 | 246 | 224 | 210 | 196 |
| Agriculture | 186 | 39 | 53 | 44 | 31 | 19 |
| Computer Science | 236 | 47 | 45 | 36 | 48 | 60 |
| Mathematics | 76 | 18 | 13 | 14 | 20 | 11 |
| Biochemistry | 97 | 21 | 15 | 26 | 19 | 16 |
| Biology and Environment * | 52 | 0 | 0 | 5 | 20 | 27 |
| Botany and Zoology | 125 | 30 | 42 | 25 | 14 | 14 |
| Chemistry | 237 | 57 | 53 | 53 | 42 | 32 |
| Physics | 94 | 15 | 25 | 21 | 16 | 17 |

* Biology and Environmental and Natural Resources Management

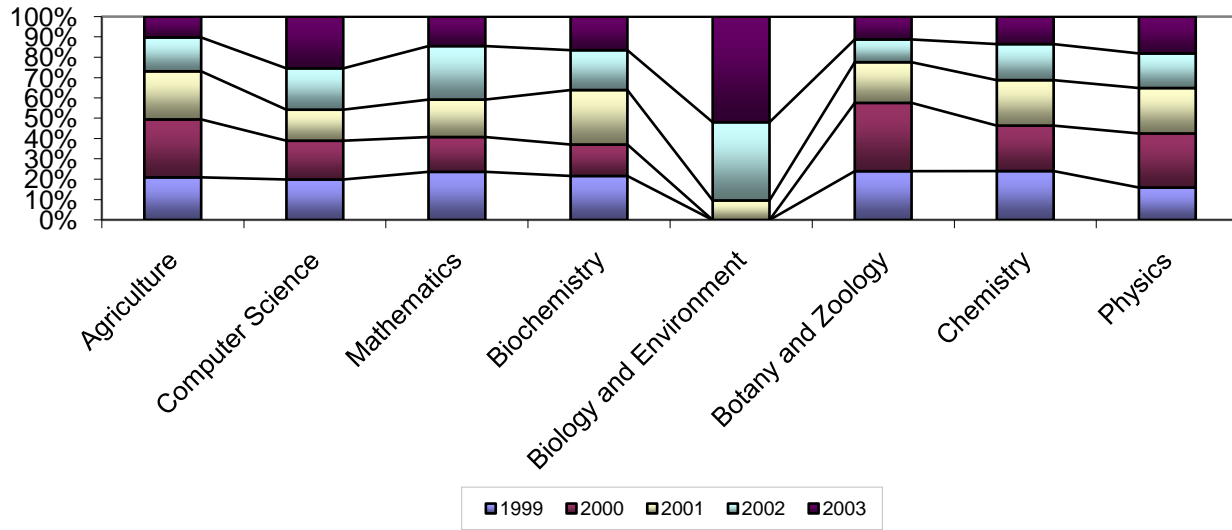
Over the five-year period, 1999 to 2003, 1,103 students graduated with a bachelor's degree from the Faculty of Science and Agriculture of The University of the West Indies. Of all graduates, 33% were males and 66% were females. The output of graduates remained constant at about 20% annually (Table 1a). By major, however, a substantial decline was observed in Agriculture with 2003 accounting for only 10% of the total graduates compared with 21% in 1999.

Table 1a: Percentage of Graduates by Major and Year
Row percentage of Table 1

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 21 | 22 | 20 | 19 | 18 |
| Agriculture | 100 | 21 | 28 | 24 | 17 | 10 |
| Computer Science | 100 | 20 | 19 | 15 | 20 | 25 |
| Mathematics | 100 | 24 | 17 | 18 | 26 | 14 |
| Biochemistry | 100 | 22 | 15 | 27 | 20 | 16 |
| Biology and Environment | 100 | 0 | 0 | 10 | 38 | 52 |
| Botany and Zoology | 100 | 24 | 34 | 20 | 11 | 11 |
| Chemistry | 100 | 24 | 22 | 22 | 18 | 14 |
| Physics | 100 | 16 | 27 | 22 | 17 | 18 |

Similar trends can be seen in Mathematics, Biochemistry, Botany and Zoology and Chemistry. Twenty-five percent (25%) of the graduates in Computer Science and 52% in Biology and Environment qualified in 2003. It should be noted that the Biology and Environment majors were introduced in the academic year, 1998/1999.

Chart 1: Percentage of Graduates by Year within Major



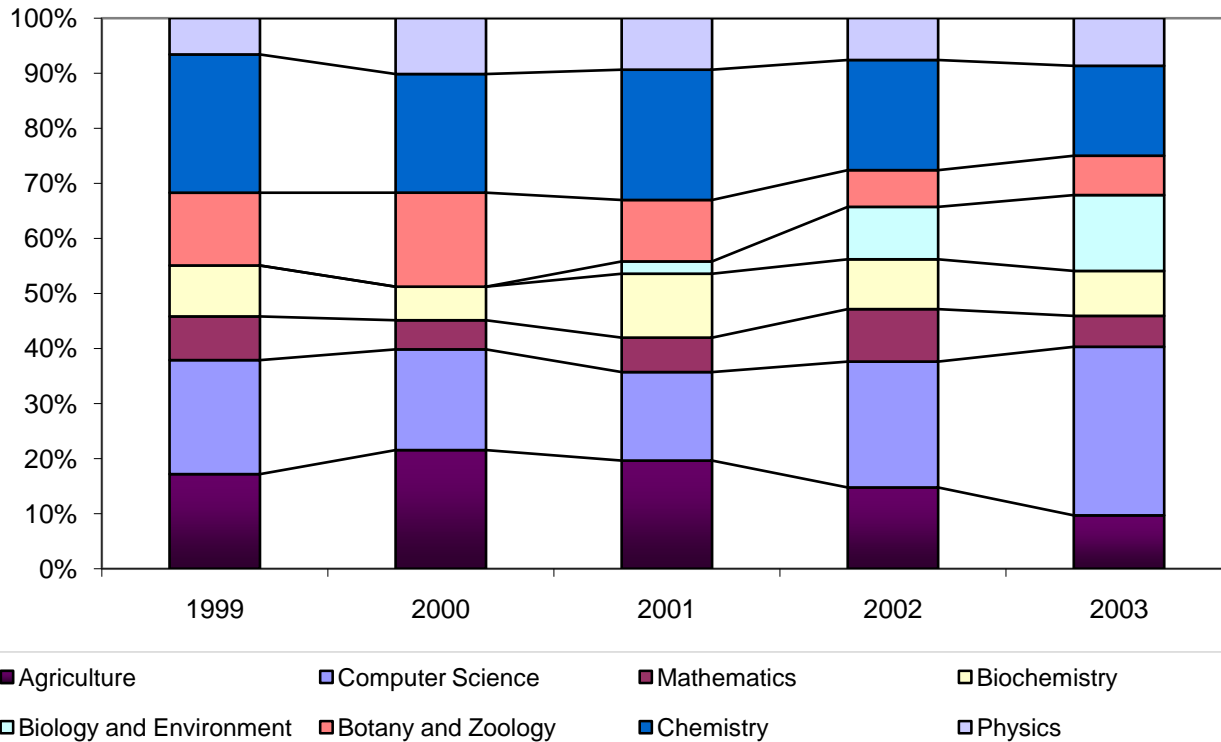
Source: Table 1a

Table 1b: Percentage of Graduates by Major and Year
Column percentage of Table 1

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 100 | 100 | 100 | 100 | 100 |
| Agriculture | 17 | 17 | 22 | 20 | 15 | 10 |
| Computer Science | 21 | 21 | 18 | 16 | 23 | 31 |
| Mathematics | 7 | 8 | 5 | 6 | 10 | 6 |
| Biochemistry | 9 | 9 | 6 | 12 | 9 | 8 |
| Biology and Environment | 5 | 0 | 0 | 2 | 10 | 14 |
| Botany and Zoology | 11 | 13 | 17 | 11 | 7 | 7 |
| Chemistry | 21 | 25 | 22 | 24 | 20 | 16 |
| Physics | 9 | 7 | 10 | 9 | 8 | 9 |

Of the total graduates in 1999, 25% majored in Chemistry and 21% in Computer Science. In 2003, however, Computer Science accounted for the majority of graduates (31%) compared with Chemistry (16%) (Table 1b). In general, less than 10% of the Faculty's graduates of the years under review majored in Mathematics and Physics.

Chart 2: Percentage of Graduates by Major within Year



Source: Table 1b

Table 2: No. of Graduates by Major and Year

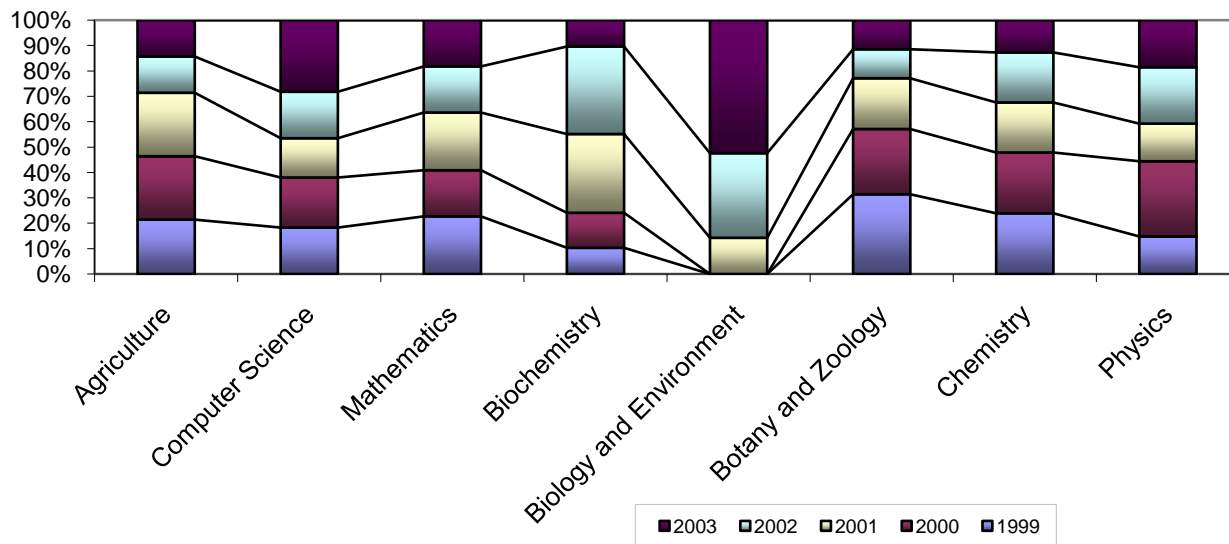
| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 332 | 65 | 70 | 67 | 66 | 64 |
| Agriculture | 56 | 12 | 14 | 14 | 8 | 8 |
| Computer Science | 71 | 13 | 14 | 11 | 13 | 20 |
| Mathematics | 22 | 5 | 4 | 5 | 4 | 4 |
| Biochemistry | 29 | 3 | 4 | 9 | 10 | 3 |
| Biology and Environment | 21 | 0 | 0 | 3 | 7 | 11 |
| Botany and Zoology | 35 | 11 | 9 | 7 | 4 | 4 |
| Chemistry | 71 | 17 | 17 | 14 | 14 | 9 |
| Physics | 27 | 4 | 8 | 4 | 6 | 5 |

Table 2 shows the distribution of the sample of graduates who participated in the survey by major and year. The data indicate that over the period, 1999 to 2003, the majority of graduates in Computer Science (28%) and Biology and Environment (52%) qualified in 2003 while graduate output decreased in Agriculture (14%), Mathematics (18%), Botany and Zoology (11%) and Chemistry (13%) (Table 2a).

Table 2a: Percentage of Graduates by Major and Year
Row percentage of Table 2

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 20 | 21 | 20 | 20 | 19 |
| Agriculture | 100 | 21 | 25 | 25 | 14 | 14 |
| Computer Science | 100 | 18 | 20 | 15 | 18 | 28 |
| Mathematics | 100 | 23 | 18 | 23 | 18 | 18 |
| Biochemistry | 100 | 10 | 14 | 31 | 34 | 10 |
| Biology and Environment | 100 | 0 | 0 | 14 | 33 | 52 |
| Botany and Zoology | 100 | 31 | 26 | 20 | 11 | 11 |
| Chemistry | 100 | 24 | 24 | 20 | 20 | 13 |
| Physics | 100 | 15 | 30 | 15 | 22 | 19 |

Chart 3: Percentage of Graduates by Year within Major



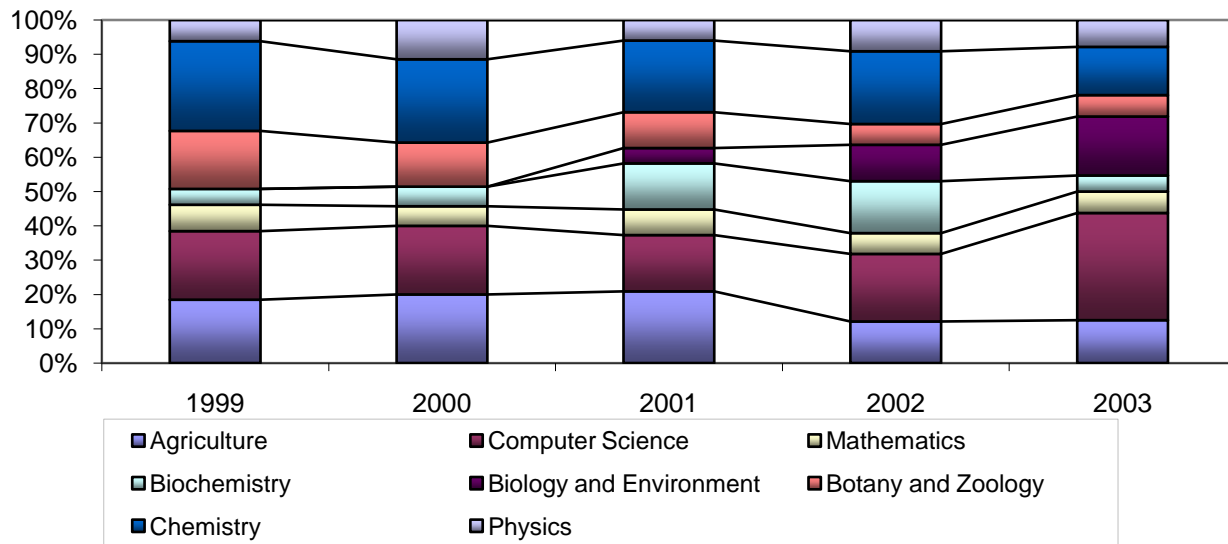
Source: Table 2a

Table 2b: Percentage of Graduates by Major and Year
Column percentage of Table 2

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 100 | 100 | 100 | 100 | 100 |
| Agriculture | 17 | 18 | 20 | 21 | 12 | 13 |
| Computer Science | 21 | 20 | 20 | 16 | 20 | 31 |
| Mathematics | 7 | 8 | 6 | 7 | 6 | 6 |
| Biochemistry | 9 | 5 | 6 | 13 | 15 | 5 |
| Biology and Environment | 6 | 0 | 0 | 4 | 11 | 17 |
| Botany and Zoology | 11 | 17 | 13 | 10 | 6 | 6 |
| Chemistry | 21 | 26 | 24 | 21 | 21 | 14 |
| Physics | 8 | 6 | 11 | 6 | 9 | 8 |

Table 2b above, representative of Table 1b, shows Computer Science (31%) as the most popular of the majors in 2003, responding to the growth and demand for qualified manpower in the information, communication and technology sector. Biology and Environment increased their popularity since their commencement in 1998/1999 and accounted for 17% of the graduates in 2003.

Chart 4: Percentage of Graduates by Major within Year



Source: Table 2b

Table 3: No. of Graduates by Major and Year
Males

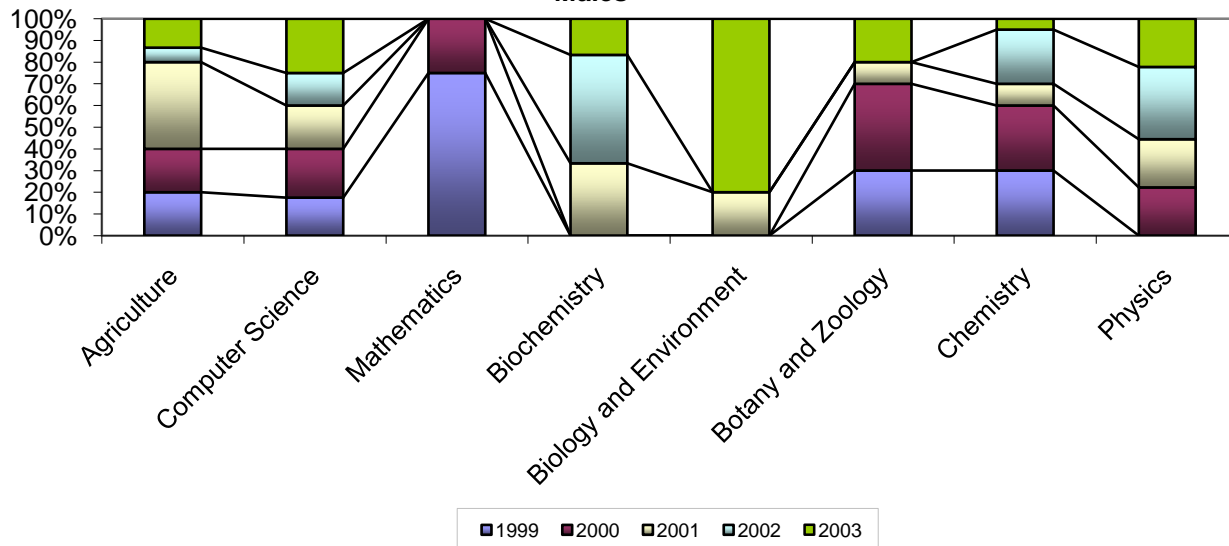
| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 109 | 22 | 25 | 22 | 18 | 22 |
| Agriculture | 15 | 3 | 3 | 6 | 1 | 2 |
| Computer Science | 40 | 7 | 9 | 8 | 6 | 10 |
| Mathematics | 4 | 3 | 1 | 0 | 0 | 0 |
| Biochemistry | 6 | 0 | 0 | 2 | 3 | 1 |
| Biology and Environment | 5 | 0 | 0 | 1 | 0 | 4 |
| Botany and Zoology | 10 | 3 | 4 | 1 | 0 | 2 |
| Chemistry | 20 | 6 | 6 | 2 | 5 | 1 |
| Physics | 9 | 0 | 2 | 2 | 3 | 2 |

Similar to the population, the male to female response to the study was 1 to 2 (Tables 3 and 4). Females out-numbered their male counterparts significantly in all areas of specialisation except Computer Science. Over the period, 1999 to 2003, Computer Science was the selected major amongst most male graduates (37%) (Table 3b) while females (23%) opted for Chemistry (Table 4b).

Table 3a: Percentage of Graduates by Major and Year
Males
Row percentage of Table 3

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 20 | 23 | 20 | 17 | 20 |
| Agriculture | 100 | 20 | 20 | 40 | 7 | 13 |
| Computer Science | 100 | 18 | 23 | 20 | 15 | 25 |
| Mathematics | 100 | 75 | 25 | 0 | 0 | 0 |
| Biochemistry | 100 | 0 | 0 | 33 | 50 | 17 |
| Biology and Environment | 100 | 0 | 0 | 20 | 0 | 80 |
| Botany and Zoology | 100 | 30 | 40 | 10 | 0 | 20 |
| Chemistry | 100 | 30 | 30 | 10 | 25 | 5 |
| Physics | 100 | 0 | 22 | 22 | 33 | 22 |

Chart 5: Percentage of Graduates by Year within Major Males



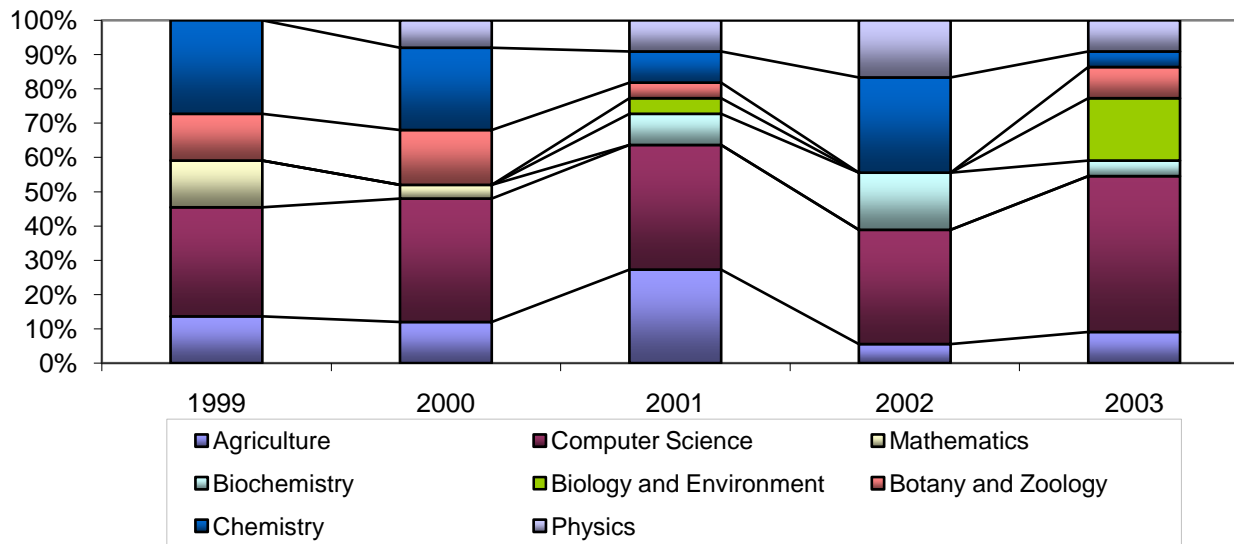
Source: Table 3a

Table 3b: Percentage of Graduates by Major and Year
Males
Column percentage of Table 3

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 100 | 100 | 100 | 100 | 100 |
| Agriculture | 14 | 14 | 12 | 27 | 6 | 9 |
| Computer Science | 37 | 32 | 36 | 36 | 33 | 45 |
| Mathematics | 4 | 14 | 4 | 0 | 0 | 0 |
| Biochemistry | 6 | 0 | 0 | 9 | 17 | 5 |
| Biology and Environment | 5 | 0 | 0 | 5 | 0 | 18 |
| Botany and Zoology | 9 | 14 | 16 | 5 | 0 | 9 |
| Chemistry | 18 | 27 | 24 | 9 | 28 | 5 |
| Physics | 8 | 0 | 8 | 9 | 17 | 9 |

In 2003, however, the majority of the male (45% - Table 3b) and female (24% - Table 4b) graduates majored in Computer

**Chart 6: Percentage of Graduates by Major within Year
Males**



Source: Table 3b

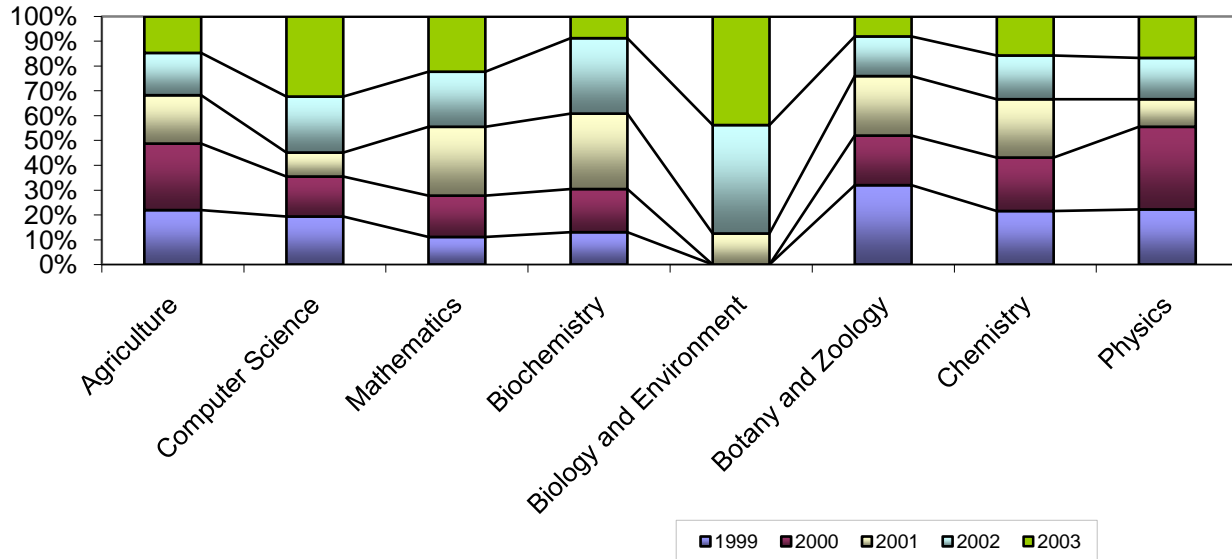
Table 4: No. of Graduates by Major and Year
Females

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 223 | 43 | 45 | 45 | 48 | 42 |
| Agriculture | 41 | 9 | 11 | 8 | 7 | 6 |
| Computer Science | 31 | 6 | 5 | 3 | 7 | 10 |
| Mathematics | 18 | 2 | 3 | 5 | 4 | 4 |
| Biochemistry | 23 | 3 | 4 | 7 | 7 | 2 |
| Biology and Environment | 16 | 0 | 0 | 2 | 7 | 7 |
| Botany and Zoology | 25 | 8 | 5 | 6 | 4 | 2 |
| Chemistry | 51 | 11 | 11 | 12 | 9 | 8 |
| Physics | 18 | 4 | 6 | 2 | 3 | 3 |

Table 4a: Percentage of Graduates by Major and Year
 Females
 Row percentage of Table 4

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 19 | 20 | 20 | 22 | 19 |
| Agriculture | 100 | 22 | 27 | 20 | 17 | 15 |
| Computer Science | 100 | 19 | 16 | 10 | 23 | 32 |
| Mathematics | 100 | 11 | 17 | 28 | 22 | 22 |
| Biochemistry | 100 | 13 | 17 | 30 | 30 | 9 |
| Biology and Environment | 100 | 0 | 0 | 13 | 44 | 44 |
| Botany and Zoology | 100 | 32 | 20 | 24 | 16 | 8 |
| Chemistry | 100 | 22 | 22 | 24 | 18 | 16 |
| Physics | 100 | 22 | 33 | 11 | 17 | 17 |

**Chart 7: Percentage of Graduates by Year within Major
Females**

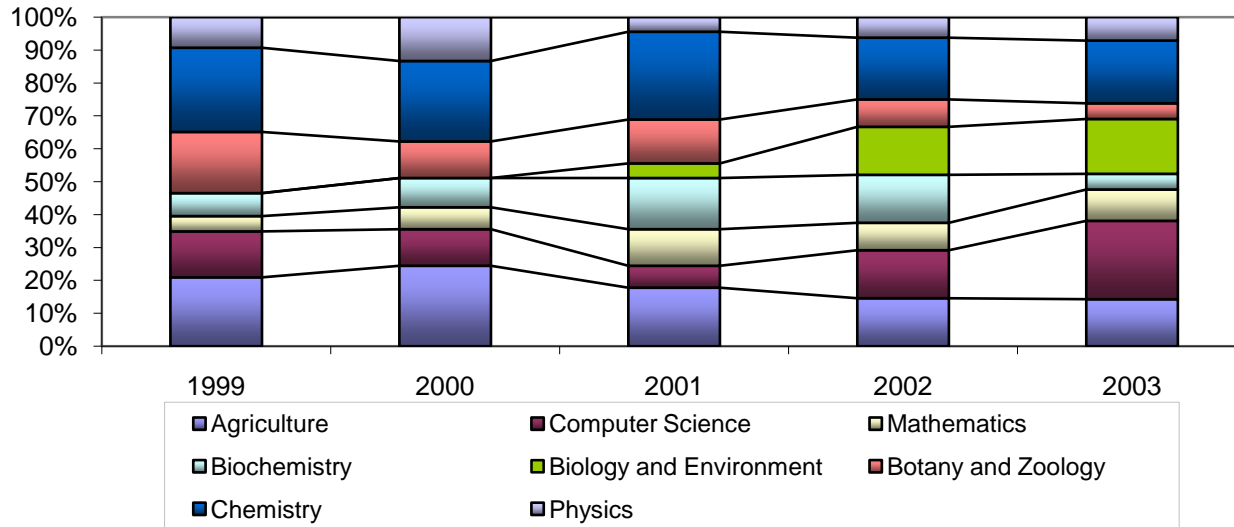


Source: Table 4a

Table 4b: Percentage of Graduates by Major and Year
 Females
 Column percentage of Table 4

| Major | Total | Year graduated | | | | |
|-------------------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 100 | 100 | 100 | 100 | 100 |
| Agriculture | 18 | 21 | 24 | 18 | 15 | 14 |
| Computer Science | 14 | 14 | 11 | 7 | 15 | 24 |
| Mathematics | 8 | 5 | 7 | 11 | 8 | 10 |
| Biochemistry | 10 | 7 | 9 | 16 | 15 | 5 |
| Biology and Environment | 7 | 0 | 0 | 4 | 15 | 17 |
| Botany and Zoology | 11 | 19 | 11 | 13 | 8 | 5 |
| Chemistry | 23 | 26 | 24 | 27 | 19 | 19 |
| Physics | 8 | 9 | 13 | 4 | 6 | 7 |

**Chart 8: Percentage of Graduates by Major within Year
Females**



Source: Table 4b

Table 5: No. of Graduates by Age and Year

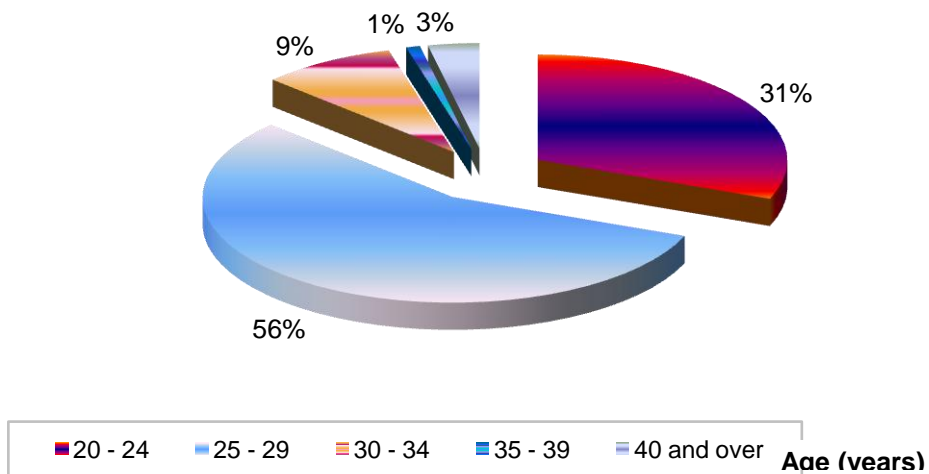
| Age | Total | Year graduated | | | | |
|-----------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All ages | 332 | 65 | 70 | 67 | 66 | 64 |
| 20 - 24 | 103 | 0 | 3 | 20 | 40 | 40 |
| 25 - 29 | 186 | 49 | 55 | 39 | 22 | 21 |
| 30 - 34 | 29 | 10 | 9 | 5 | 3 | 2 |
| 35 - 39 | 3 | 1 | 0 | 2 | 0 | 0 |
| 40 and over | 11 | 5 | 3 | 1 | 1 | 1 |

As at 2004, the modal age group of the graduates of the five-year period, 1999 to 2003, was 25-29 years (Table 5) and 87% were under the age of 30 (Table 5a). Further review of the data by gender shows that 78% of the males (Table 6a) were between 20-29 years of age compared with 92% in the case of females (Table 7a).

Table 5a: Percentage of Graduates by Age and Year

| Age | Total | Year graduated | | | | |
|-----------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All ages | 100 | 100 | 100 | 100 | 100 | 100 |
| 20 - 24 | 31 | 0 | 4 | 30 | 61 | 63 |
| 25 - 29 | 56 | 75 | 79 | 58 | 33 | 33 |
| 30 - 34 | 9 | 15 | 13 | 7 | 5 | 3 |
| 35 - 39 | 1 | 2 | 0 | 3 | 0 | 0 |
| 40 and over | 3 | 8 | 4 | 1 | 2 | 2 |

Chart 9. Percentage of Graduates by Age



Source: Table 5a

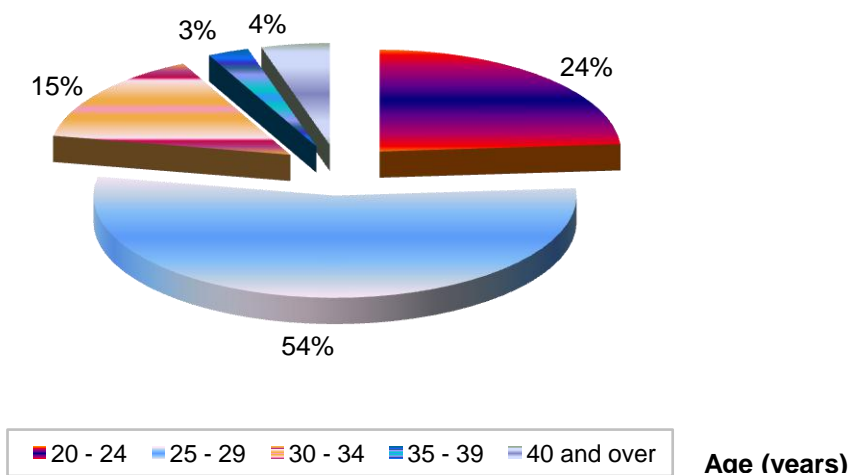
Table 6: No. of Graduates by Age and Year
Males

| Age | Total | Year graduated | | | | |
|-----------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All ages | 109 | 22 | 25 | 22 | 18 | 22 |
| 20 - 24 | 26 | 0 | 2 | 4 | 8 | 12 |
| 25 - 29 | 59 | 13 | 17 | 13 | 7 | 9 |
| 30 - 34 | 16 | 6 | 4 | 2 | 3 | 1 |
| 35 - 39 | 3 | 1 | 0 | 2 | 0 | 0 |
| 40 and over | 5 | 2 | 2 | 1 | 0 | 0 |

Table 6a: Percentage of Graduates by Age and Year
Males

| Age | Total | Year graduated | | | | |
|-----------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All ages | 100 | 100 | 100 | 100 | 100 | 100 |
| 20 - 24 | 24 | 0 | 8 | 18 | 44 | 55 |
| 25 - 29 | 54 | 59 | 68 | 59 | 39 | 41 |
| 30 - 34 | 15 | 27 | 16 | 9 | 17 | 5 |
| 35 - 39 | 3 | 5 | 0 | 9 | 0 | 0 |
| 40 and over | 5 | 9 | 8 | 5 | 0 | 0 |

Chart 10. Percentage of Graduates by Age - Males



Source: Table 6a

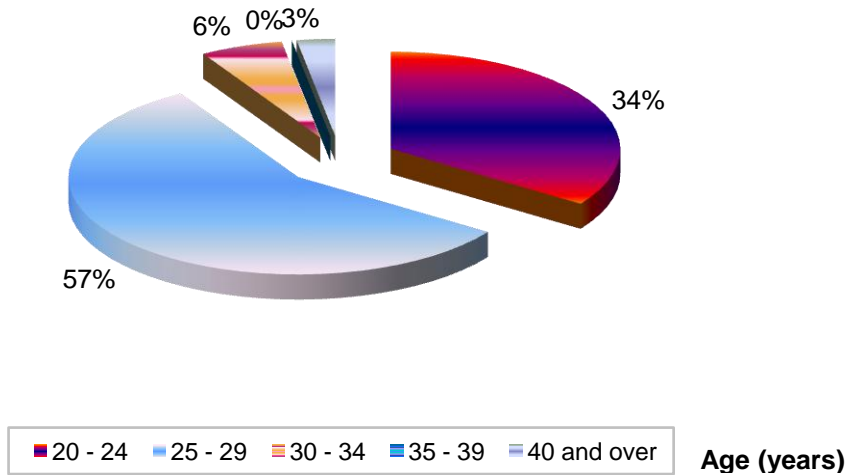
Table 7: No. of Graduates by Age and Year
Females

| Age | Total | Year graduated | | | | |
|-----------------|------------|----------------|-----------|-----------|-----------|-----------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All ages | 223 | 43 | 45 | 45 | 48 | 42 |
| 20 - 24 | 77 | 0 | 1 | 16 | 32 | 28 |
| 25 - 29 | 127 | 36 | 38 | 26 | 15 | 12 |
| 30 - 34 | 13 | 4 | 5 | 3 | 0 | 1 |
| 35 - 39 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 and over | 6 | 3 | 1 | 0 | 1 | 1 |

Table 7a: Percentage of Graduates by Age and Year
Females

| Age | Total | Year graduated | | | | |
|-----------------|------------|----------------|------------|------------|------------|------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All ages | 100 | 100 | 100 | 100 | 100 | 100 |
| 20 - 24 | 35 | 0 | 2 | 36 | 67 | 67 |
| 25 - 29 | 57 | 84 | 84 | 58 | 31 | 29 |
| 30 - 34 | 6 | 9 | 11 | 7 | 0 | 2 |
| 35 - 39 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 and over | 3 | 7 | 2 | 0 | 2 | 2 |

Chart 11. Percentage of Graduates by Age - Females



Source: Table 7a

Table 8: No. of Graduates with A'Levels by Subject and Gender

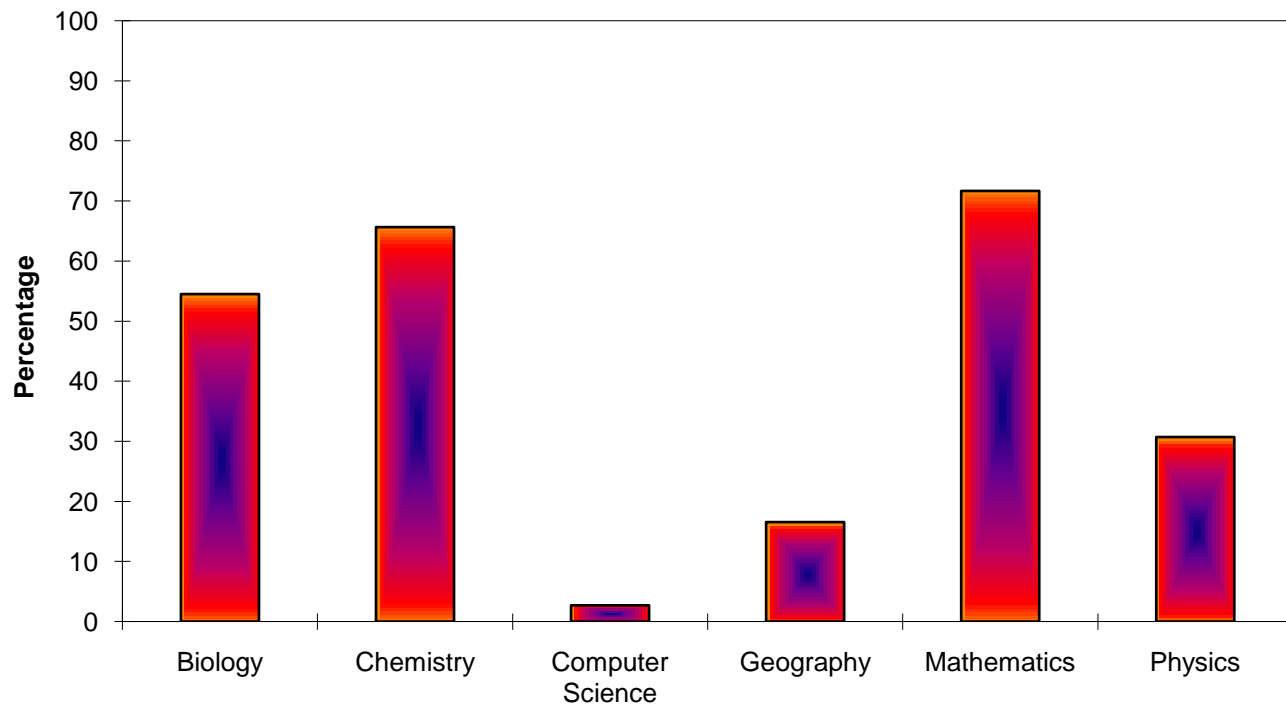
| Subject | No. of graduates with A'Levels | | |
|------------------|--------------------------------|------|--------|
| | Total | Male | Female |
| | (1) | (2) | (3) |
| Biology | 181 | 47 | 134 |
| Chemistry | 218 | 73 | 145 |
| Computer Science | 9 | 5 | 4 |
| Geography | 55 | 12 | 43 |
| Mathematics | 238 | 79 | 159 |
| Physics | 102 | 44 | 58 |

Of the subjects shown in Table 8 above, Mathematics was the most popular. Seventy two percent (72%) of the total 332 graduates had obtained A'Level passes in this subject, followed by Chemistry (66%) and Biology (55%) (Table 8a). The least A'Level passes were observed in Computer Science (3%). By gender, a similar proportion of males and females had attained A'Level passes in Mathematics and Chemistry. The majority of graduates (68%) had obtained three A'Levels in satisfying matriculation requirement of their degree program. Ten percent (10%) held alternative admission qualifications such as a diploma from a technical or similar institution.

Table 8a: Percentage of Graduates with A'Levels by Subject and Gender

| Subject | Percentage of graduates with A'Levels | | |
|------------------|---------------------------------------|------|--------|
| | Total | Male | Female |
| | (1) | (2) | (3) |
| Biology | 55 | 43 | 60 |
| Chemistry | 66 | 67 | 65 |
| Computer Science | 3 | 5 | 2 |
| Geography | 17 | 11 | 19 |
| Mathematics | 72 | 72 | 71 |
| Physics | 31 | 40 | 26 |

Chart 12. Percentage of Graduates with A'Levels by Subject



Source: Table 8a

Table 9: No. of Graduates by Major and Employment Status
(March 1, 2004)

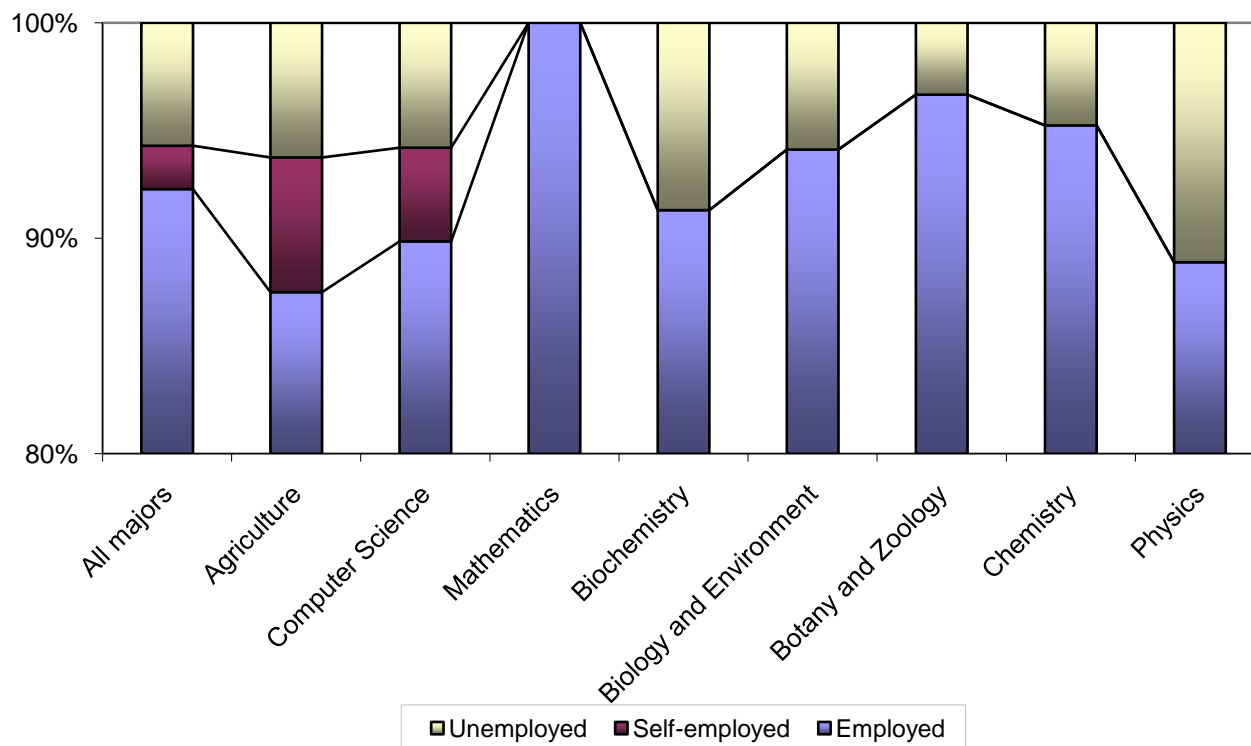
| Major | Total | Employment status | | |
|-------------------------|------------|-------------------|---------------|------------|
| | | Employed | Self-employed | Unemployed |
| | (1) | (2) | (3) | (4) |
| All majors | 298 | 275 | 6 | 17 |
| Agriculture | 48 | 42 | 3 | 3 |
| Computer Science | 69 | 62 | 3 | 4 |
| Mathematics | 21 | 21 | 0 | 0 |
| Biochemistry | 23 | 21 | 0 | 2 |
| Biology and Environment | 17 | 16 | 0 | 1 |
| Botany and Zoology | 30 | 29 | 0 | 1 |
| Chemistry | 63 | 60 | 0 | 3 |
| Physics | 27 | 24 | 0 | 3 |

The data reveal that 94% of the graduates were employed and 6% unemployed as at March 1, 2004 (Table 9a). As entrepreneurs, only 2% with majors in Agriculture and Computer Science were self-employed. Graduates in Mathematics reported full employment while the largest unemployment rates were observed among Physics (11%) and Biochemistry (9%) majors. Of all 332 respondents, 30 (9%) were classified as students and 4 (1%) did not want work.

Table 9a: Percentage of Graduates by Major and Employment Status
(March 1, 2004)

| Major | Total | Employment status | | |
|-------------------------|------------|-------------------|---------------|------------|
| | | Employed | Self-employed | Unemployed |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 92 | 2 | 6 |
| Agriculture | 100 | 88 | 6 | 6 |
| Computer Science | 100 | 90 | 4 | 6 |
| Mathematics | 100 | 100 | 0 | 0 |
| Biochemistry | 100 | 91 | 0 | 9 |
| Biology and Environment | 100 | 94 | 0 | 6 |
| Botany and Zoology | 100 | 97 | 0 | 3 |
| Chemistry | 100 | 95 | 0 | 5 |
| Physics | 100 | 89 | 0 | 11 |

Chart 13. Percentage of Graduates by Major and Employment Status



Source: Table 9a

Table 10: No. of Graduates by Major and Employment Status
Males

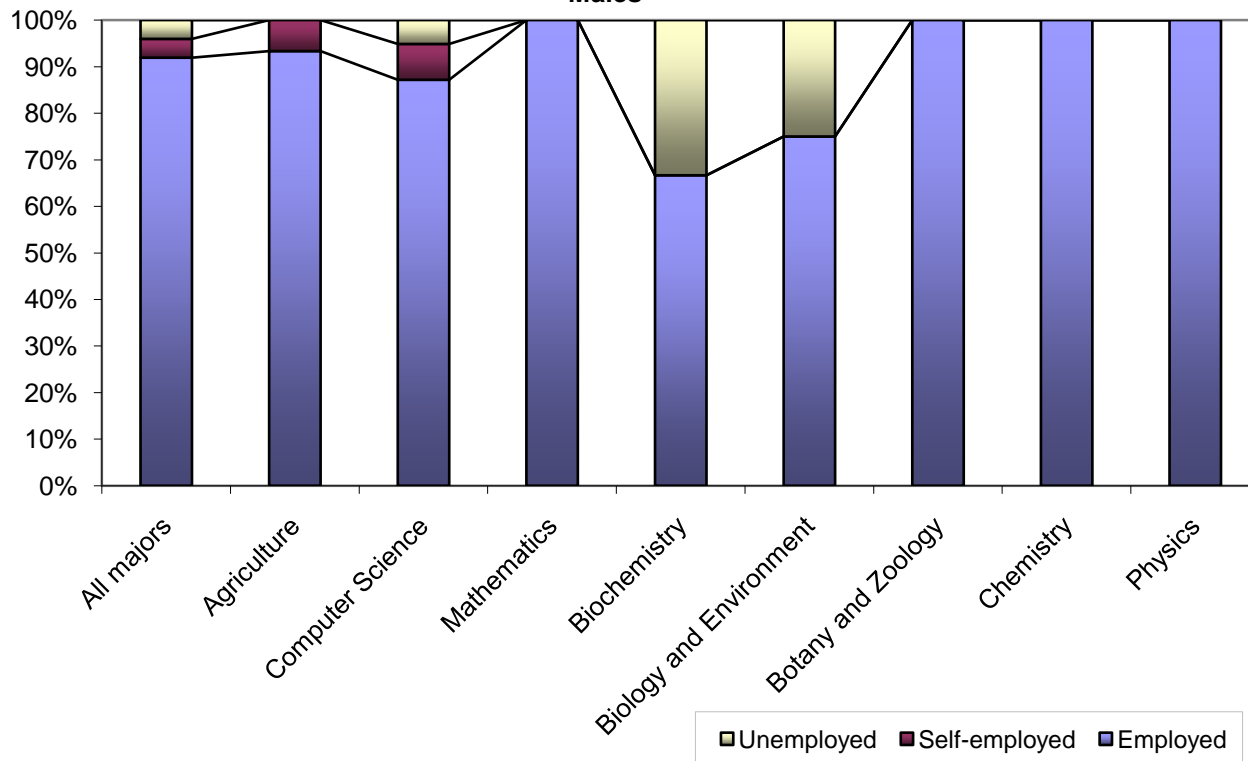
| Major | Total | Employment status | | |
|-------------------------|-----------|-------------------|---------------|------------|
| | | Employed | Self-employed | Unemployed |
| | (1) | (2) | (3) | (4) |
| All majors | 99 | 91 | 4 | 4 |
| Agriculture | 15 | 14 | 1 | 0 |
| Computer Science | 39 | 34 | 3 | 2 |
| Mathematics | 4 | 4 | 0 | 0 |
| Biochemistry | 3 | 2 | 0 | 1 |
| Biology and Environment | 4 | 3 | 0 | 1 |
| Botany and Zoology | 7 | 7 | 0 | 0 |
| Chemistry | 18 | 18 | 0 | 0 |
| Physics | 9 | 9 | 0 | 0 |

Employment amongst males (96%) (Table 10a) was slightly above that of females (93%) (Table 11a). Unemployment amongst males who majored in Biochemistry (33%) and Biology and Environment (25%), and of females in Physics (17%) was significant.

Table 10a: Percentage of Graduates by Major and Employment Status
Males

| Major | Total | Employment status | | |
|-------------------------|------------|-------------------|---------------|------------|
| | | Employed | Self-employed | Unemployed |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 92 | 4 | 4 |
| Agriculture | 100 | 93 | 7 | 0 |
| Computer Science | 100 | 87 | 8 | 5 |
| Mathematics | 100 | 100 | 0 | 0 |
| Biochemistry | 100 | 67 | 0 | 33 |
| Biology and Environment | 100 | 75 | 0 | 25 |
| Botany and Zoology | 100 | 100 | 0 | 0 |
| Chemistry | 100 | 100 | 0 | 0 |
| Physics | 100 | 100 | 0 | 0 |

Chart 14. Percentage of Graduates by Major and Employment Status
Males



Source: Table 10a

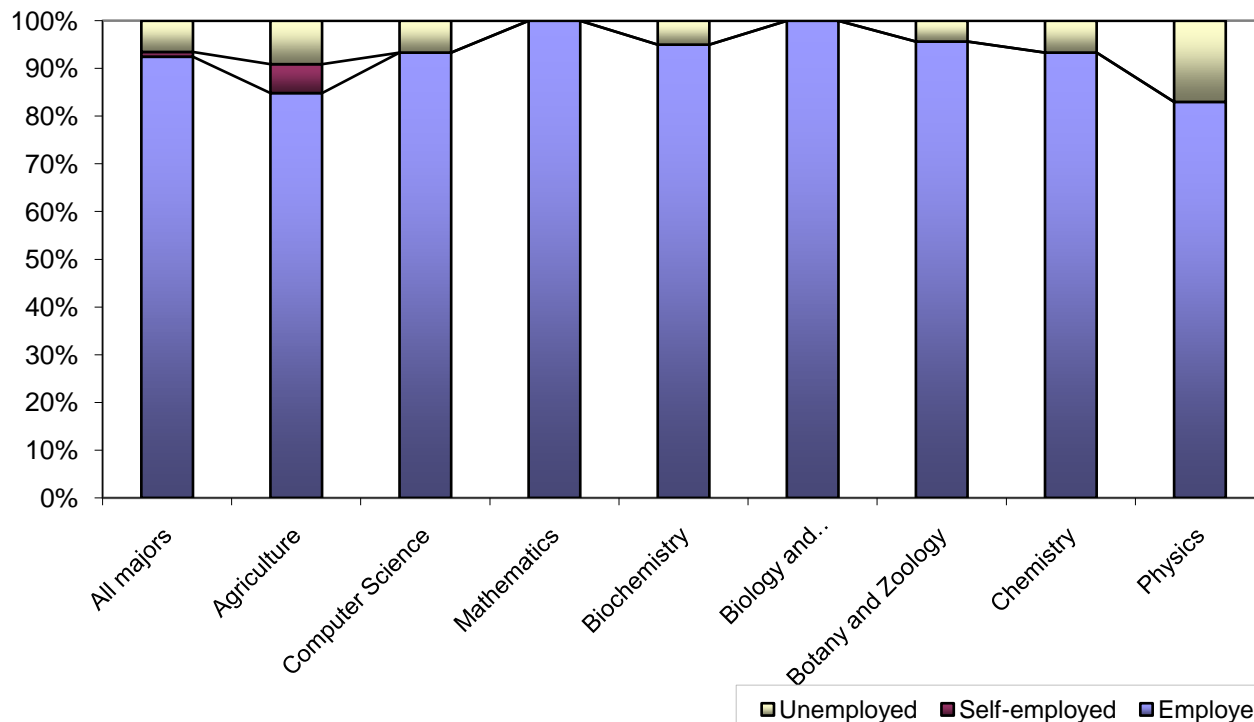
Table 11: No. of Graduates by Major and Employment Status
Females

| Major | Total | Employment status | | |
|-------------------------|------------|-------------------|---------------|------------|
| | | Employed | Self-employed | Unemployed |
| | (1) | (2) | (3) | (4) |
| All majors | 199 | 184 | 2 | 13 |
| Agriculture | 33 | 28 | 2 | 3 |
| Computer Science | 30 | 28 | 0 | 2 |
| Mathematics | 17 | 17 | 0 | 0 |
| Biochemistry | 20 | 19 | 0 | 1 |
| Biology and Environment | 13 | 13 | 0 | 0 |
| Botany and Zoology | 23 | 22 | 0 | 1 |
| Chemistry | 45 | 42 | 0 | 3 |
| Physics | 18 | 15 | 0 | 3 |

Table 11a: Percentage of Graduates by Major and Employment Status
Females

| Major | Total | Employment status | | |
|-------------------------|------------|-------------------|---------------|------------|
| | | Employed | Self-employed | Unemployed |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 92 | 1 | 7 |
| Agriculture | 100 | 85 | 6 | 9 |
| Computer Science | 100 | 93 | 0 | 7 |
| Mathematics | 100 | 100 | 0 | 0 |
| Biochemistry | 100 | 95 | 0 | 5 |
| Biology and Environment | 100 | 100 | 0 | 0 |
| Botany and Zoology | 100 | 96 | 0 | 4 |
| Chemistry | 100 | 93 | 0 | 7 |
| Physics | 100 | 83 | 0 | 17 |

**Chart 15. Percentage of Graduates by Major and Employment Status
Females**



Source: Table 11a

Table 12. No. of Graduates by Year and First Employment

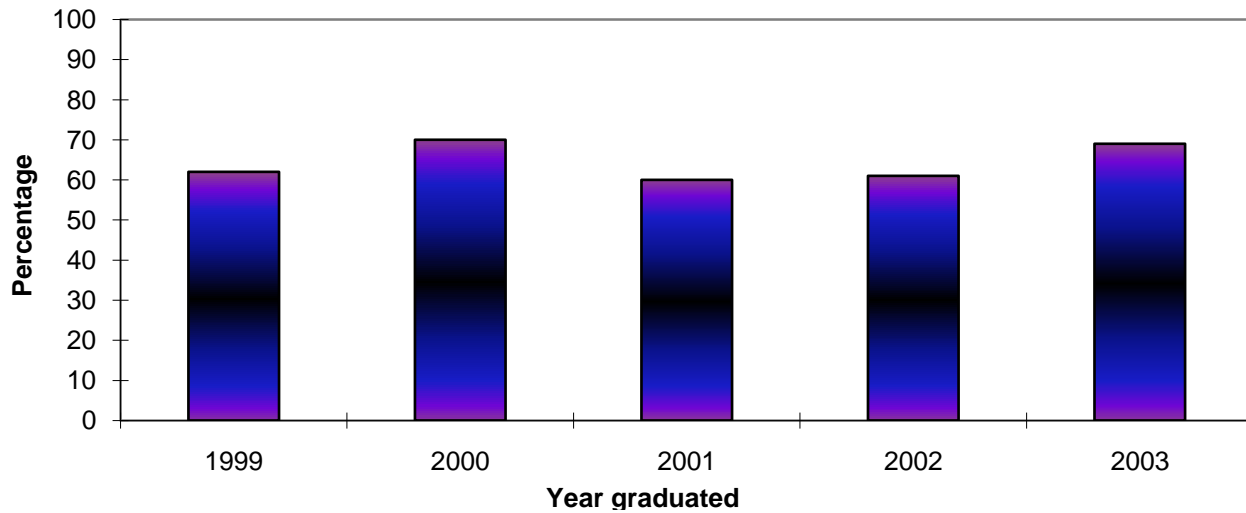
| Year graduated | Total | First year of employment | | | | | | |
|----------------|-------|--------------------------|------|------|------|------|------|--------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Never worked |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1999 | 65 | 40 | 20 | 3 | 0 | 0 | 0 | 2 |
| 2000 | 70 | | 49 | 13 | 5 | 2 | 0 | 1 |
| 2001 | 67 | | | 40 | 14 | 4 | 3 | 6 |
| 2002 | 66 | | | | 40 | 19 | 2 | 5 |
| 2003 | 64 | | | | | 44 | 8 | 12 |

The survey results show that approximately 70% of the graduates of 2000 and 2003 obtained their first jobs in the same year of graduation compared with 60% of 1999, 2001 and 2002 (Table 12a).

Table 12a. Percentage of Graduates by Year and First Employment

| Year graduated | Total | First year of employment | | | | | | |
|-------------------|-------|--------------------------|------|------|------|------|------|--------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Never worked |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1999 | 100 | 62 | 31 | 5 | 0 | 0 | 0 | 3 |
| 2000 | 100 | | 70 | 19 | 7 | 3 | 0 | 1 |
| 2001 | 100 | | | 60 | 21 | 6 | 4 | 9 |
| 2002 | 100 | | | | 61 | 29 | 3 | 8 |
| 2003 | 100 | | | | | 69 | 13 | 19 |

Chart 16. Percentage of Graduates with First Job in Year Graduated



Source: Table 12a

Table 13. No. of Graduates by Year and First Employment
Males

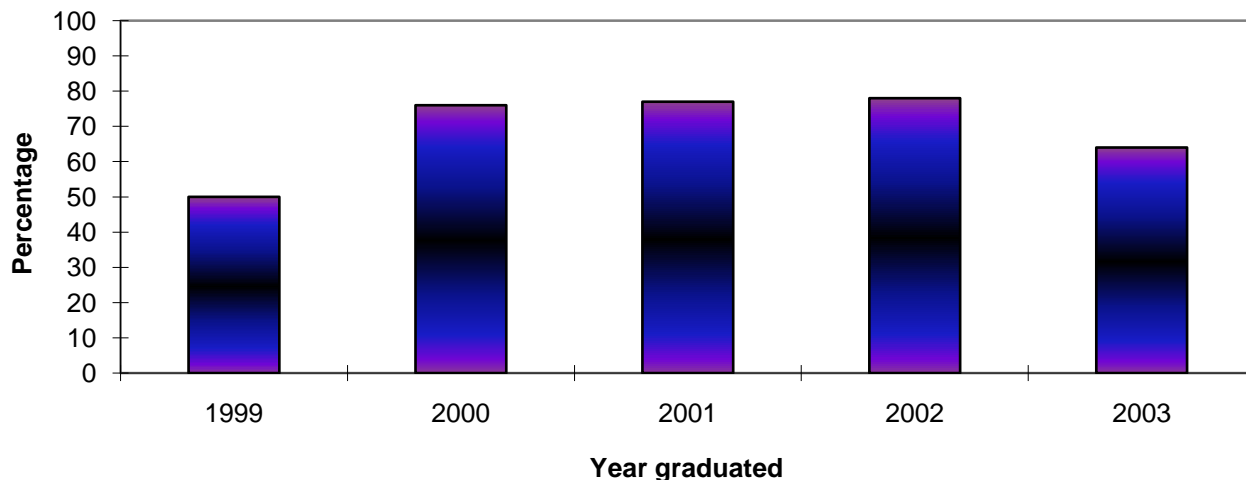
| Year graduated | Total | First year of employment | | | | | | |
|-------------------|-------|--------------------------|------|------|------|------|------|--------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Never worked |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1999 | 22 | 11 | 9 | 1 | 0 | 0 | 0 | 1 |
| 2000 | 25 | | 19 | 5 | 1 | 0 | 0 | 0 |
| 2001 | 22 | | | 17 | 2 | 1 | 0 | 2 |
| 2002 | 18 | | | | 14 | 2 | 0 | 2 |
| 2003 | 22 | | | | | 14 | 4 | 4 |

Over 75% of the male graduates of the period 2000 to 2002 reported a first employment in their graduation year. A substantial proportion of the graduates (41%) of 1999 proceeded to their first jobs in 2000 (Table 13a).

Table 13a. Percentage of Graduates by Year and First Employment
Males

| Year graduated | Total | First year of employment | | | | | | |
|-------------------|-------|--------------------------|------|------|------|------|------|--------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Never worked |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1999 | 100 | 50 | 41 | 5 | 0 | 0 | 0 | 5 |
| 2000 | 100 | | 76 | 20 | 4 | 0 | 0 | 0 |
| 2001 | 100 | | | 77 | 9 | 5 | 0 | 9 |
| 2002 | 100 | | | | 78 | 11 | 0 | 11 |
| 2003 | 100 | | | | | 64 | 18 | 18 |

**Chart 17. Percentage of Graduates with First Job in Year Graduated
Males**



Source: Table 13a

Table 14. No. of Graduates by Year and First Employment
Females

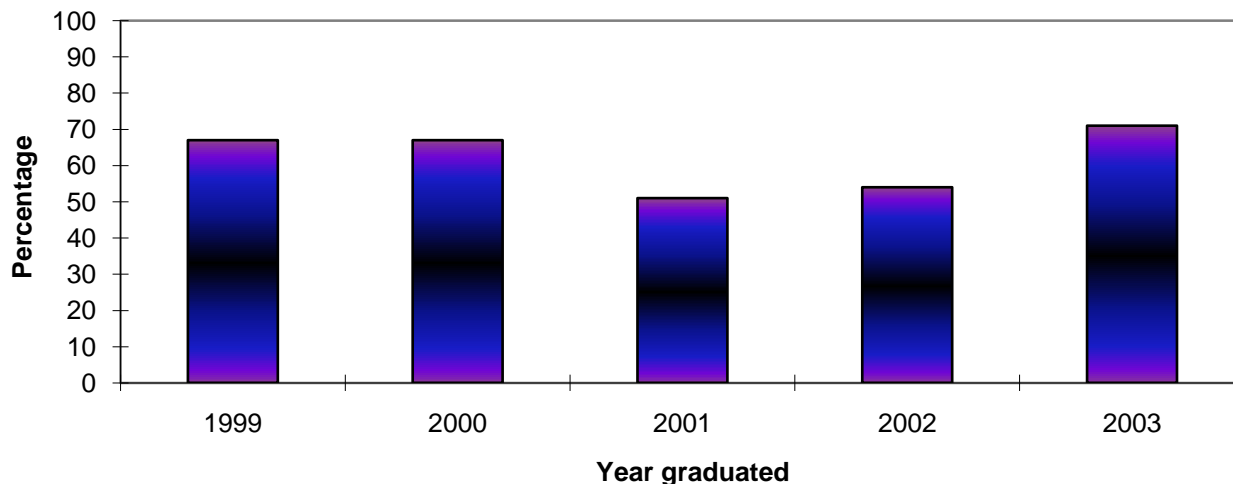
| Year graduated | Total | First year of employment | | | | | | |
|----------------|-------|--------------------------|------|------|------|------|------|--------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Never worked |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1999 | 43 | 29 | 11 | 2 | 0 | 0 | 0 | 1 |
| 2000 | 45 | | 30 | 8 | 4 | 2 | 0 | 1 |
| 2001 | 45 | | | 23 | 12 | 3 | 3 | 4 |
| 2002 | 48 | | | | 26 | 17 | 2 | 3 |
| 2003 | 42 | | | | | 30 | 4 | 8 |

Compared with an employment rate of 67% in both 1999 and 2000, the percentage of female graduates who acquired their first jobs in the same year of graduation declined to 51% in 2001 and to 54% in 2002, and thereafter increased substantially to 71% in 2003 (Table 14a).

Table 14a. Percentage of Graduates by Year and First Employment
Females

| Year graduated | Total | First year of employment | | | | | | |
|-------------------|-------|--------------------------|------|------|------|------|------|--------------|
| | | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Never worked |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1999 | 100 | 67 | 26 | 5 | 0 | 0 | 0 | 2 |
| 2000 | 100 | | 67 | 18 | 9 | 4 | 0 | 2 |
| 2001 | 100 | | | 51 | 27 | 7 | 7 | 9 |
| 2002 | 100 | | | | 54 | 35 | 4 | 6 |
| 2003 | 100 | | | | | 71 | 10 | 19 |

**Chart 18. Percentage of Graduates with First Job in Year Graduated
Females**



Source: Table 14a

Table 15. No of Graduates by Major and Sector of Employment - First Job

| Major | Total | Sector of employment | | | | | |
|-------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|---------------------|
| | | Government | Research institutions | Higher education | Public utilities | Public enterprises | Private enterprises |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 306 | 103 | 18 | 33 | 10 | 13 | 129 |
| Agriculture | 53 | 27 | 0 | 8 | 0 | 1 | 17 |
| Computer Science | 68 | 19 | 1 | 3 | 7 | 5 | 33 |
| Mathematics | 21 | 8 | 0 | 2 | 0 | 1 | 10 |
| Biochemistry | 24 | 5 | 2 | 3 | 1 | 0 | 13 |
| Biology and Environment | 18 | 8 | 2 | 1 | 1 | 0 | 6 |
| Botany and Zoology | 33 | 12 | 2 | 8 | 0 | 2 | 9 |
| Chemistry | 64 | 14 | 6 | 3 | 1 | 3 | 37 |
| Physics | 25 | 10 | 5 | 5 | 0 | 1 | 4 |

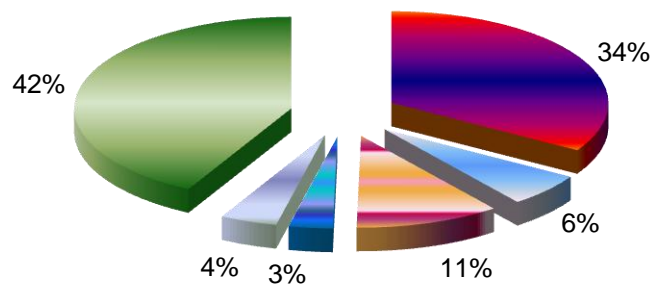
Table 15 shows the distribution of graduates by major and sector of first employment. Public agencies provided 58% of the graduates with their first jobs compared with 42% by private enterprises (Table 15a).

Table 15a. Percentage of Graduates by Major and Sector of Employment - First Job

| Major | Total | Sector of employment | | | | | |
|-------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|---------------------|
| | | Government | Research institutions | Higher education | Public utilities | Public enterprises | Private enterprises |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 34 | 6 | 11 | 3 | 4 | 42 |
| Agriculture | 100 | 51 | 0 | 15 | 0 | 2 | 32 |
| Computer Science | 100 | 28 | 1 | 4 | 10 | 7 | 49 |
| Mathematics | 100 | 38 | 0 | 10 | 0 | 5 | 48 |
| Biochemistry | 100 | 21 | 8 | 13 | 4 | 0 | 54 |
| Biology and Environment | 100 | 44 | 11 | 6 | 6 | 0 | 33 |
| Botany and Zoology | 100 | 36 | 6 | 24 | 0 | 6 | 27 |
| Chemistry | 100 | 22 | 9 | 5 | 2 | 5 | 58 |
| Physics | 100 | 40 | 20 | 20 | 0 | 4 | 16 |

Most Biochemistry (54%) and Chemistry (58%) majors, and approximately 50% of Computer Science and Mathematics majors were employed by the private sector. The central government was seen as the first substantial employer of the graduates with majors in Agriculture (51%), Biology and Environment (44%), Botany and Zoology (36%) and Physics (40%).

Chart 19. Percentage of All Majors by Sector of Employment - First Job



■ Government ■ Research institutions ■ Higher education ■ Public utilities ■ Public enterprises ■ Private enterprises

Source: Table 15a

Table 16. No of Graduates by Major and Sector of Employment - First Job
Males

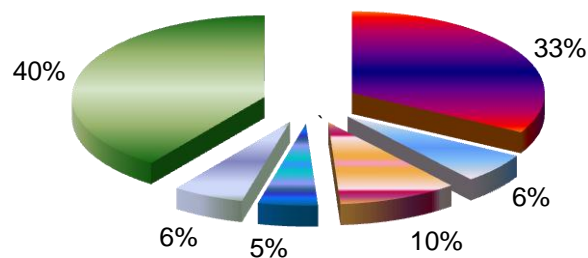
| Major | Total | Sector of employment | | | | | |
|-------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|---------------------|
| | | Government | Research institutions | Higher education | Public utilities | Public enterprises | Private enterprises |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 33 | 6 | 10 | 5 | 6 | 40 |
| Agriculture | 15 | 8 | 0 | 2 | 0 | 1 | 4 |
| Computer Science | 39 | 10 | 1 | 3 | 5 | 3 | 17 |
| Mathematics | 4 | 1 | 0 | 0 | 0 | 0 | 3 |
| Biochemistry | 2 | 0 | 0 | 1 | 0 | 0 | 1 |
| Biology and Environment | 4 | 2 | 0 | 0 | 0 | 0 | 2 |
| Botany and Zoology | 9 | 3 | 1 | 1 | 0 | 1 | 3 |
| Chemistry | 18 | 7 | 2 | 1 | 0 | 1 | 7 |
| Physics | 9 | 2 | 2 | 2 | 0 | 0 | 3 |

By gender, the pattern of employment was similar to that as reviewed for all graduates with approximately 60% public to 40% private sector job placement (Tables 16a and 17a).

Table 16a. Percentage of Graduates by Major and Sector of Employment - First Job
Males

| Major | Total | Sector of employment | | | | | |
|-------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|---------------------|
| | | Government | Research institutions | Higher education | Public utilities | Public enterprises | Private enterprises |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 33 | 6 | 10 | 5 | 6 | 40 |
| Agriculture | 100 | 53 | 0 | 13 | 0 | 7 | 27 |
| Computer Science | 100 | 26 | 3 | 8 | 13 | 8 | 44 |
| Mathematics | 100 | 25 | 0 | 0 | 0 | 0 | 75 |
| Biochemistry | 100 | 0 | 0 | 50 | 0 | 0 | 50 |
| Biology and Environment | 100 | 50 | 0 | 0 | 0 | 0 | 50 |
| Botany and Zoology | 100 | 33 | 11 | 11 | 0 | 11 | 33 |
| Chemistry | 100 | 39 | 11 | 6 | 0 | 6 | 39 |
| Physics | 100 | 22 | 22 | 22 | 0 | 0 | 33 |

**Chart 20. Percentage of All Majors by Sector of Employment - First Job
Males**



■ Government ■ Research institutions ■ Higher education ■ Public utilities ■ Public enterprises ■ Private enterprises

Source: Table 16a

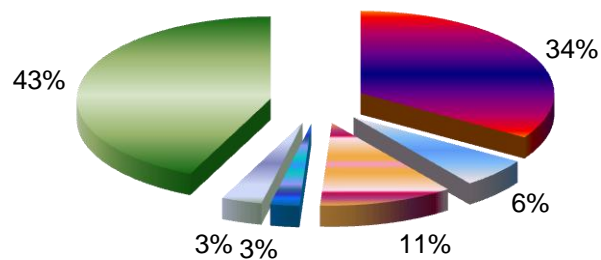
Table 17. No of Graduates by Major and Sector of Employment - First Job
Females

| Major | Total | Sector of employment | | | | | |
|-------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|---------------------|
| | | Government | Research institutions | Higher education | Public utilities | Public enterprises | Private enterprises |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 206 | 70 | 12 | 23 | 5 | 7 | 89 |
| Agriculture | 38 | 19 | 0 | 6 | 0 | 0 | 13 |
| Computer Science | 29 | 9 | 0 | 0 | 2 | 2 | 16 |
| Mathematics | 17 | 7 | 0 | 2 | 0 | 1 | 7 |
| Biochemistry | 22 | 5 | 2 | 2 | 1 | 0 | 12 |
| Biology and Environment | 14 | 6 | 2 | 1 | 1 | 0 | 4 |
| Botany and Zoology | 24 | 9 | 1 | 7 | 0 | 1 | 6 |
| Chemistry | 46 | 7 | 4 | 2 | 1 | 2 | 30 |
| Physics | 16 | 8 | 3 | 3 | 0 | 1 | 1 |

Table 17a. Percentage of Graduates by Major and Sector of Employment - First Job
Females

| Major | Total | Sector of employment | | | | | |
|-------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|---------------------|
| | | Government | Research institutions | Higher education | Public utilities | Public enterprises | Private enterprises |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 34 | 6 | 11 | 2 | 3 | 43 |
| Agriculture | 100 | 50 | 0 | 16 | 0 | 0 | 34 |
| Computer Science | 100 | 31 | 0 | 0 | 7 | 7 | 55 |
| Mathematics | 100 | 41 | 0 | 12 | 0 | 6 | 41 |
| Biochemistry | 100 | 23 | 9 | 9 | 5 | 0 | 55 |
| Biology and Environment | 100 | 43 | 14 | 7 | 7 | 0 | 29 |
| Botany and Zoology | 100 | 38 | 4 | 29 | 0 | 4 | 25 |
| Chemistry | 100 | 15 | 9 | 4 | 2 | 4 | 65 |
| Physics | 100 | 50 | 19 | 19 | 0 | 6 | 6 |

**Chart 21. Percentage of All Majors by Sector of Employment - First Job
Females**



■ Government
 ■ Research institutions
 ■ Higher education
 ■ Public utilities
 ■ Public enterprises
 ■ Private enterprises

Source: Table 17a

Table 18. No. of Graduates by Major and Gross Monthly Income - First Job

| Major | Total | Gross monthly income | | | | | |
|-------------------------|------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------|
| | | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 306 | 137 | 105 | 26 | 7 | 2 | 29 |
| Agriculture | 53 | 25 | 18 | 3 | 0 | 0 | 7 |
| Computer Science | 68 | 15 | 34 | 7 | 3 | 1 | 8 |
| Mathematics | 21 | 4 | 11 | 4 | 0 | 0 | 2 |
| Biochemistry | 24 | 16 | 4 | 2 | 0 | 0 | 2 |
| Biology and Environment | 18 | 11 | 4 | 1 | 0 | 1 | 1 |
| Botany and Zoology | 33 | 22 | 6 | 2 | 1 | 0 | 2 |
| Chemistry | 64 | 33 | 20 | 4 | 2 | 0 | 5 |
| Physics | 25 | 11 | 8 | 3 | 1 | 0 | 2 |

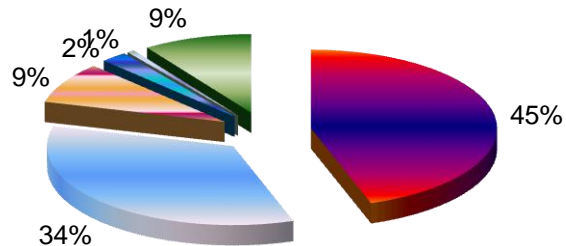
Table 18 shows the distribution of graduates and the gross monthly incomes of their first jobs. Including all majors, a significant proportion (45%) reported gross monthly incomes of under \$4,000, especially amongst Biochemistry (67%), Botany and Zoology (67%) and Biology and Environment (61%) majors (Table 18a).

Table 18a. Percentage of Graduates by Major and Gross Monthly Income - First Job

| Major | Total | Gross monthly income | | | | | |
|-------------------------|------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------|
| | | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 45 | 34 | 8 | 2 | 1 | 9 |
| Agriculture | 100 | 47 | 34 | 6 | 0 | 0 | 13 |
| Computer Science | 100 | 22 | 50 | 10 | 4 | 1 | 12 |
| Mathematics | 100 | 19 | 52 | 19 | 0 | 0 | 10 |
| Biochemistry | 100 | 67 | 17 | 8 | 0 | 0 | 8 |
| Biology and Environment | 100 | 61 | 22 | 6 | 0 | 6 | 6 |
| Botany and Zoology | 100 | 67 | 18 | 6 | 3 | 0 | 6 |
| Chemistry | 100 | 52 | 31 | 6 | 3 | 0 | 8 |
| Physics | 100 | 44 | 32 | 12 | 4 | 0 | 8 |

The modal monthly income range of Mathematics and Computer Science graduates (50%) was \$4,000 - \$5,999. Six percent (6%) of Biology and Environment majors reported incomes in the range of \$10,000 - \$14,999.

Chart 22. Percentage of All Majors by Gross Monthly Income - First Job



| | | | | | |
|-------------|---------------------|---------------------|---------------------|-----------------------|--------------|
| ■ < \$4,000 | ■ \$4,000 - \$5,999 | ■ \$6,000 - \$7,999 | ■ \$8,000 - \$9,999 | ■ \$10,000 - \$14,999 | ■ Not stated |
|-------------|---------------------|---------------------|---------------------|-----------------------|--------------|

Source: Table 18a

Table 19. No. of Graduates by Major and Gross Monthly Income - First Job
Males

| Major | Total | Gross monthly income | | | | | |
|-------------------------|------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------|
| | | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 29 | 43 | 6 | 5 | 2 | 15 |
| Agriculture | 15 | 5 | 4 | 1 | 0 | 0 | 5 |
| Computer Science | 39 | 8 | 22 | 0 | 3 | 1 | 5 |
| Mathematics | 4 | 0 | 3 | 0 | 0 | 0 | 1 |
| Biochemistry | 2 | 1 | 0 | 0 | 0 | 0 | 1 |
| Biology and Environment | 4 | 1 | 1 | 1 | 0 | 1 | 0 |
| Botany and Zoology | 9 | 4 | 3 | 1 | 1 | 0 | 0 |
| Chemistry | 18 | 6 | 6 | 3 | 1 | 0 | 2 |
| Physics | 9 | 4 | 4 | 0 | 0 | 0 | 1 |

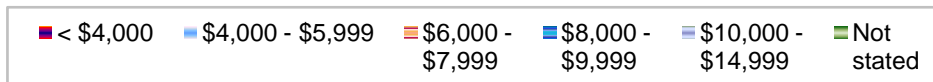
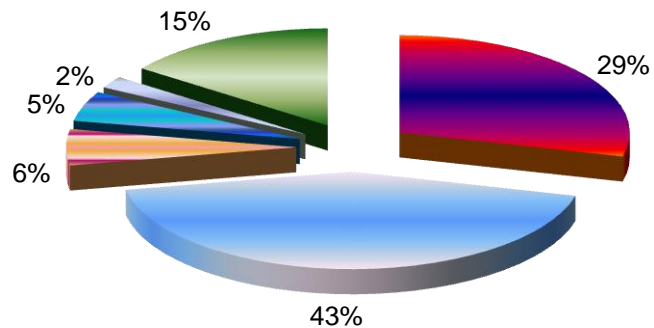
The study shows significant differences between the genders in respect of the gross monthly incomes in their first jobs. Most males (43%) reported gross incomes in the range \$4,000 - \$5,999, monthly whereas the majority of females (52%) received under \$4,000 (Tables 19a and 20a).

Table 19a. Percentage of Graduates by Major and Gross Monthly Income - First Job
Males

| Major | Total | Gross monthly income | | | | | |
|-------------------------|------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------|
| | | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 29 | 43 | 6 | 5 | 2 | 15 |
| Agriculture | 100 | 33 | 27 | 7 | 0 | 0 | 33 |
| Computer Science | 100 | 21 | 56 | 0 | 8 | 3 | 13 |
| Mathematics | 100 | 0 | 75 | 0 | 0 | 0 | 25 |
| Biochemistry | 100 | 50 | 0 | 0 | 0 | 0 | 50 |
| Biology and Environment | 100 | 25 | 25 | 25 | 0 | 25 | 0 |
| Botany and Zoology | 100 | 44 | 33 | 11 | 11 | 0 | 0 |
| Chemistry | 100 | 33 | 33 | 17 | 6 | 0 | 11 |
| Physics | 100 | 44 | 44 | 0 | 0 | 0 | 11 |

In addition, 7% of the male compared with 1% of the female graduates received employment incomes of \$8,000 and over.

**Chart 23. Percentage of All Majors by Gross Monthly Income - First Job
Males**



Source: Table 19a

Table 20. No. of Graduates by Major and Gross Monthly Income - First Job
Females

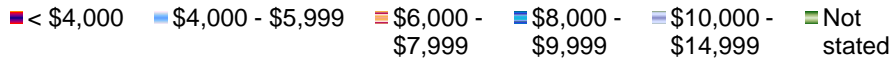
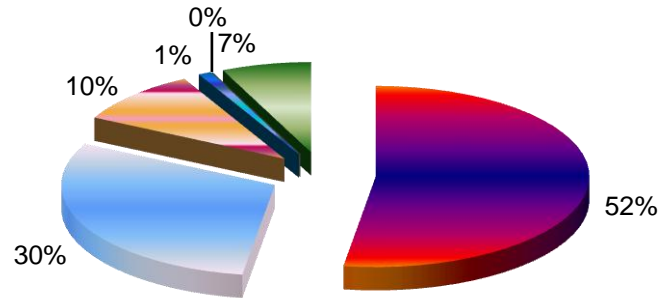
| Major | Total | Gross monthly income | | | | | |
|-------------------------|------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------|
| | | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 206 | 108 | 62 | 20 | 2 | 0 | 14 |
| Agriculture | 38 | 20 | 14 | 2 | 0 | 0 | 2 |
| Computer Science | 29 | 7 | 12 | 7 | 0 | 0 | 3 |
| Mathematics | 17 | 4 | 8 | 4 | 0 | 0 | 1 |
| Biochemistry | 22 | 15 | 4 | 2 | 0 | 0 | 1 |
| Biology and Environment | 14 | 10 | 3 | 0 | 0 | 0 | 1 |
| Botany and Zoology | 24 | 18 | 3 | 1 | 0 | 0 | 2 |
| Chemistry | 46 | 27 | 14 | 1 | 1 | 0 | 3 |
| Physics | 16 | 7 | 4 | 3 | 1 | 0 | 1 |

The disparity was substantial amongst Biology and Environment majors with 25% males to 71% females reporting incomes of under \$4,000. A similar proportion of male and female graduates in Computer Science and Physics earned less than \$4,000. monthly.

Table 20a. Percentage of Graduates by Major and Gross Monthly Income - First Job
Females

| Major | Total | Gross monthly income | | | | | |
|-------------------------|------------|----------------------|-------------------|-------------------|-------------------|---------------------|------------|
| | | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| All majors | 100 | 52 | 30 | 10 | 1 | 0 | 7 |
| Agriculture | 100 | 53 | 37 | 5 | 0 | 0 | 5 |
| Computer Science | 100 | 24 | 41 | 24 | 0 | 0 | 10 |
| Mathematics | 100 | 24 | 47 | 24 | 0 | 0 | 6 |
| Biochemistry | 100 | 68 | 18 | 9 | 0 | 0 | 5 |
| Biology and Environment | 100 | 71 | 21 | 0 | 0 | 0 | 7 |
| Botany and Zoology | 100 | 75 | 13 | 4 | 0 | 0 | 8 |
| Chemistry | 100 | 59 | 30 | 2 | 2 | 0 | 7 |
| Physics | 100 | 44 | 25 | 19 | 6 | 0 | 6 |

**Chart 24. Percentage of All Majors by Gross Monthly Income - First Job
Females**



Source: Table 20a

Table 21. No. of Graduates by Major and Relevance of University Education to First Job

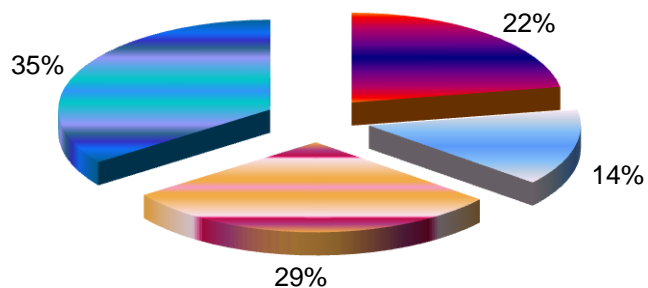
| Major | Total | Relevance of university education to first job | | | |
|-------------------------|------------|--|-----------|-----------|------------|
| | | Under 25% | 25% - 49% | 50% - 74% | 75% - 100% |
| | (1) | (2) | (3) | (4) | (5) |
| All majors | 306 | 68 | 42 | 89 | 107 |
| Agriculture | 53 | 13 | 7 | 19 | 14 |
| Computer Science | 68 | 6 | 10 | 26 | 26 |
| Mathematics | 21 | 3 | 2 | 4 | 12 |
| Biochemistry | 24 | 7 | 6 | 6 | 5 |
| Biology and Environment | 18 | 4 | 2 | 4 | 8 |
| Botany and Zoology | 33 | 11 | 4 | 4 | 14 |
| Chemistry | 64 | 18 | 7 | 18 | 21 |
| Physics | 25 | 6 | 4 | 8 | 7 |

The majority of graduates (35%) indicated that the relevance of university education to their first jobs was within the 75% - 100% range and accumulatively 64% reported a relevance of 50% and above (Table 21a). Mathematics majors (57%) reported the highest level of relevance of university education to their first jobs while Botany and Zoology majors (33%) reported the lowest level of relevance.

Table 21a. Percentage of Graduates by Major and Relevance of University Education to First Job

| Major | Total | Relevance of university education to first job | | | |
|-------------------------|------------|--|-----------|-----------|------------|
| | | Under 25% | 25% - 49% | 50% - 74% | 75% - 100% |
| | (1) | (2) | (3) | (4) | (5) |
| All majors | 100 | 22 | 14 | 29 | 35 |
| Agriculture | 100 | 25 | 13 | 36 | 26 |
| Computer Science | 100 | 9 | 15 | 38 | 38 |
| Mathematics | 100 | 14 | 10 | 19 | 57 |
| Biochemistry | 100 | 29 | 25 | 25 | 21 |
| Biology and Environment | 100 | 22 | 11 | 22 | 44 |
| Botany and Zoology | 100 | 33 | 12 | 12 | 42 |
| Chemistry | 100 | 28 | 11 | 28 | 33 |
| Physics | 100 | 24 | 16 | 32 | 28 |

Chart 25. Percentage of All Majors by Relevance of University Education to First Job



■ Under 25% ■ 25% - 49% ■ 50% - 74% ■ 75% - 100%

Source: Table 21a

Table 22. Percentage of Graduates by Major and Reason for Changing Job

| Major | Reason for job change | | | | | |
|-------------------------|-----------------------|-----------|--------------|-------------|------------------------|-------------------|
| | Income | Security | Satisfaction | Environment | Relevance to education | Further education |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 54 | 33 | 39 | 27 | 22 | 25 |
| Agriculture | 41 | 38 | 41 | 28 | 10 | 34 |
| Computer Science | 50 | 31 | 39 | 33 | 22 | 19 |
| Mathematics | 75 | 50 | 25 | 0 | 50 | 25 |
| Biochemistry | 56 | 25 | 25 | 13 | 13 | 25 |
| Biology and Environment | 50 | 50 | 38 | 25 | 0 | 25 |
| Botany and Zoology | 63 | 25 | 50 | 25 | 38 | 25 |
| Chemistry | 61 | 35 | 39 | 33 | 28 | 28 |
| Physics | 43 | 29 | 43 | 14 | 29 | 0 |

'Income' was identified as the major reason for job mobility by graduates (54%); 39% indicated 'satisfaction' and 33%

Table 23. No. of Graduates by Major and Industry of Employment
(as at March 1, 2004)

| Major | Total | Industry of employment | | | | | | | | |
|-------------------------|------------|------------------------|-------------------|---------------|-----------------------|--------------|--------------|-----------------------------|-------------------|--------------------|
| | | Agriculture | Petroleum and gas | Manufacturing | Electricity and water | Construction | Distribution | Transport and communication | Business services | Community services |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| All majors | 281 | 3 | 23 | 21 | 5 | 3 | 11 | 1 | 61 | 153 |
| Agriculture | 45 | 2 | 1 | 5 | 0 | 1 | 2 | 0 | 5 | 29 |
| Computer Science | 65 | 0 | 4 | 2 | 4 | 1 | 3 | 1 | 25 | 25 |
| Mathematics | 21 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 12 |
| Biochemistry | 21 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 4 | 13 |
| Biology and Environment | 16 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 3 | 9 |
| Botany and Zoology | 29 | 1 | 3 | 1 | 0 | 0 | 0 | 0 | 5 | 19 |
| Chemistry | 60 | 0 | 10 | 9 | 0 | 0 | 3 | 0 | 8 | 30 |
| Physics | 24 | 0 | 3 | 0 | 0 | 1 | 1 | 0 | 3 | 16 |

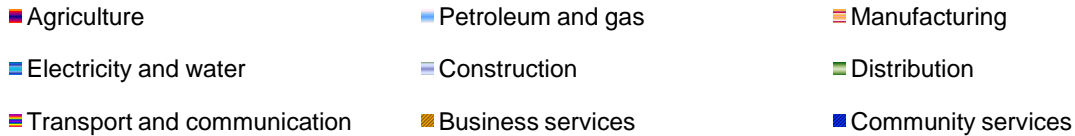
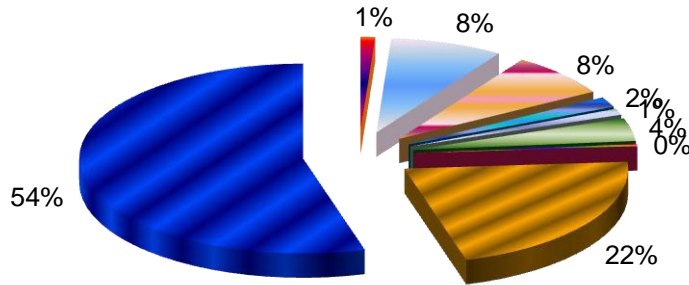
As at March 1, 2004, most graduates (54%) were employed in Community services of which the central government is a significant component (Table 23a).

Table 23a. Percentage of Graduates by Major and Industry of Employment
(as at March 1, 2004)

| Major | Total | Industry of employment | | | | | | | | |
|-------------------------|------------|------------------------|-------------------|---------------|-----------------------|--------------|--------------|-----------------------------|-------------------|--------------------|
| | | Agriculture | Petroleum and gas | Manufacturing | Electricity and water | Construction | Distribution | Transport and communication | Business services | Community services |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| All majors | 100 | 1 | 8 | 7 | 2 | 1 | 4 | 0 | 22 | 54 |
| Agriculture | 100 | 4 | 2 | 11 | 0 | 2 | 4 | 0 | 11 | 64 |
| Computer Science | 100 | 0 | 6 | 3 | 6 | 2 | 5 | 2 | 38 | 38 |
| Mathematics | 100 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 38 | 57 |
| Biochemistry | 100 | 0 | 5 | 10 | 0 | 0 | 5 | 0 | 19 | 62 |
| Biology and Environment | 100 | 0 | 0 | 13 | 6 | 0 | 6 | 0 | 19 | 56 |
| Botany and Zoology | 100 | 3 | 10 | 3 | 0 | 0 | 0 | 0 | 17 | 66 |
| Chemistry | 100 | 0 | 17 | 15 | 0 | 0 | 5 | 0 | 13 | 50 |
| Physics | 100 | 0 | 13 | 0 | 0 | 4 | 4 | 0 | 13 | 67 |

Business services absorbed 22% of the graduates, Petroleum and gas (8%), and Manufacturing (7%).

Chart 26. Percentage of All Majors by Industry of Employment



Source: Table 23a

By major, a substantial proportion (38%) of Computer Science and Mathematics graduates was employed in Business services. Among the Chemistry majors, 17% were employed in Petroleum and gas, and 15% in Manufacturing.

Table 24. No. of Graduates by Major and Gross Monthly Income
(as at March 1, 2004)

| Major | Gross monthly income | | | | | | | |
|-------------------------|----------------------|-----------|-------------------|-------------------|-------------------|---------------------|-------------------|------------|
| | Total | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | \$15,000 and over | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| All majors | 281 | 40 | 84 | 90 | 21 | 16 | 2 | 28 |
| Agriculture | 45 | 8 | 19 | 12 | 1 | 0 | 0 | 5 |
| Computer Science | 65 | 6 | 14 | 25 | 6 | 7 | 0 | 7 |
| Mathematics | 21 | 1 | 8 | 7 | 2 | 0 | 1 | 2 |
| Biochemistry | 21 | 3 | 11 | 5 | 0 | 0 | 0 | 2 |
| Biology and Environment | 16 | 7 | 5 | 2 | 0 | 0 | 0 | 2 |
| Botany and Zoology | 29 | 7 | 7 | 7 | 3 | 4 | 0 | 1 |
| Chemistry | 60 | 6 | 14 | 22 | 7 | 3 | 1 | 7 |
| Physics | 24 | 2 | 6 | 10 | 2 | 2 | 0 | 2 |

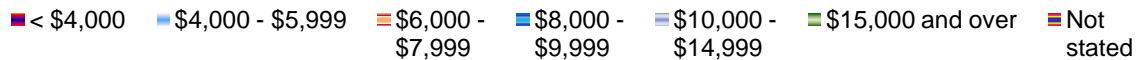
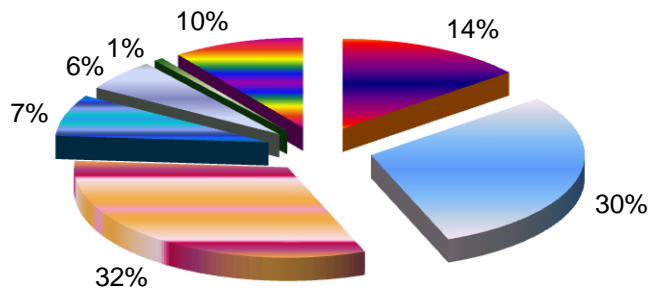
Subject to the varying periods of job experience in the range of less than one year to five years, Table 24a shows that the gross monthly remuneration of approximately one third of the graduates was in each of the income groups \$4,000 - \$5,999 and \$6,000-\$7,999.

Table 24a. Percentage of Graduates by Major and Gross Monthly Income
(as at March 1, 2004)

| Major | Gross monthly income | | | | | | | |
|-------------------------|----------------------|-----------|-------------------|-------------------|-------------------|---------------------|-------------------|------------|
| | Total | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | \$15,000 and over | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| All majors | 100 | 14 | 30 | 32 | 7 | 6 | 1 | 10 |
| Agriculture | 100 | 18 | 42 | 27 | 2 | 0 | 0 | 11 |
| Computer Science | 100 | 9 | 22 | 38 | 9 | 11 | 0 | 11 |
| Mathematics | 100 | 5 | 38 | 33 | 10 | 0 | 5 | 10 |
| Biochemistry | 100 | 14 | 52 | 24 | 0 | 0 | 0 | 10 |
| Biology and Environment | 100 | 44 | 31 | 13 | 0 | 0 | 0 | 13 |
| Botany and Zoology | 100 | 24 | 24 | 24 | 10 | 14 | 0 | 3 |
| Chemistry | 100 | 10 | 23 | 37 | 12 | 5 | 2 | 12 |
| Physics | 100 | 8 | 25 | 42 | 8 | 8 | 0 | 8 |

Graduates with a Biochemistry and a Biology and Environment major which commenced in the academic year 1998/1999 were the lowest paid. Excluding Agriculture, between 15% - 24% of the graduates in the remaining majors reported gross monthly incomes of \$8,000 and over.

Chart 27. Percentage of All Majors by Gross Monthly Income



Source: Table 24a

Table 25. Percentage of Graduates by Major and Gross Monthly Income
(as at March 1, 2004)
Males

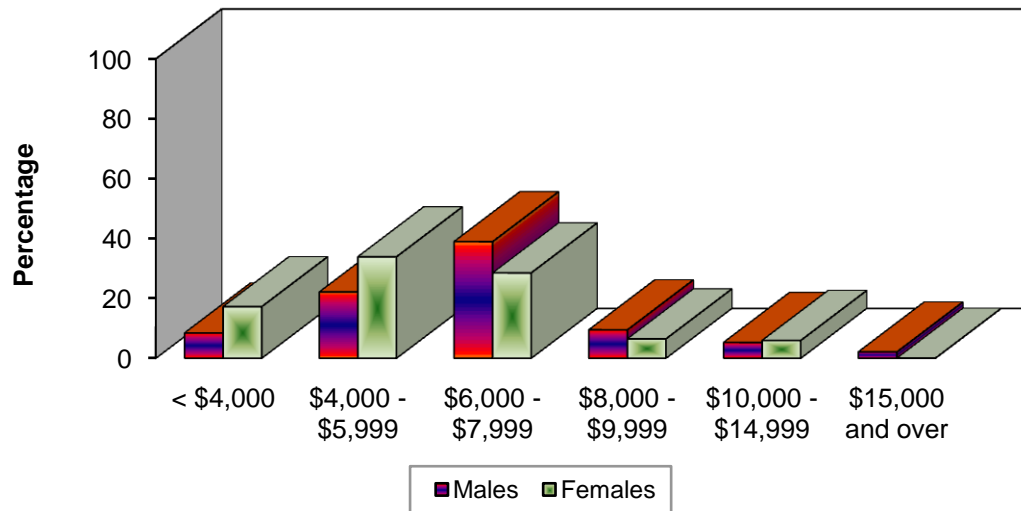
| Major | Gross monthly income | | | | | | | |
|-------------------------|----------------------|-----------|-------------------|-------------------|-------------------|---------------------|-------------------|------------|
| | Total | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | \$15,000 and over | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| All majors | 100 | 8 | 22 | 39 | 9 | 5 | 2 | 14 |
| Agriculture | 100 | 20 | 33 | 20 | 0 | 0 | 0 | 27 |
| Computer Science | 100 | 8 | 22 | 41 | 14 | 5 | 0 | 11 |
| Mathematics | 100 | 0 | 0 | 50 | 0 | 0 | 25 | 25 |
| Biochemistry | 100 | 0 | 100 | 0 | 0 | 0 | 0 | 0 |
| Biology and Environment | 100 | 0 | 33 | 33 | 0 | 0 | 0 | 33 |
| Botany and Zoology | 100 | 14 | 14 | 43 | 14 | 14 | 0 | 0 |
| Chemistry | 100 | 6 | 11 | 50 | 11 | 6 | 6 | 11 |
| Physics | 100 | 0 | 22 | 44 | 11 | 11 | 0 | 11 |

Table 25 shows that male graduates received higher monthly incomes than their female counterparts (Table 26). The modal income group of the employed male graduates was \$6,000 - \$7,999 compared with \$4,000 - \$5,999 for females.

Table 26. Percentage of Graduates by Major and Gross Monthly Income
(as at March 1, 2004)
Females

| Major | Gross monthly income | | | | | | | |
|-------------------------|----------------------|-----------|-------------------|-------------------|-------------------|---------------------|-------------------|------------|
| | Total | < \$4,000 | \$4,000 - \$5,999 | \$6,000 - \$7,999 | \$8,000 - \$9,999 | \$10,000 - \$14,999 | \$15,000 and over | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| All majors | 100 | 17 | 34 | 28 | 6 | 6 | 0 | 8 |
| Agriculture | 100 | 17 | 47 | 30 | 3 | 0 | 0 | 3 |
| Computer Science | 100 | 11 | 21 | 36 | 4 | 18 | 0 | 11 |
| Mathematics | 100 | 6 | 47 | 29 | 12 | 0 | 0 | 6 |
| Biochemistry | 100 | 16 | 47 | 26 | 0 | 0 | 0 | 11 |
| Biology and Environment | 100 | 54 | 31 | 8 | 0 | 0 | 0 | 8 |
| Botany and Zoology | 100 | 27 | 27 | 18 | 9 | 14 | 0 | 5 |
| Chemistry | 100 | 12 | 29 | 31 | 12 | 5 | 0 | 12 |
| Physics | 100 | 13 | 27 | 40 | 7 | 7 | 0 | 7 |

Chart 28. Percentage of All Majors by Gender and Gross Monthly Income



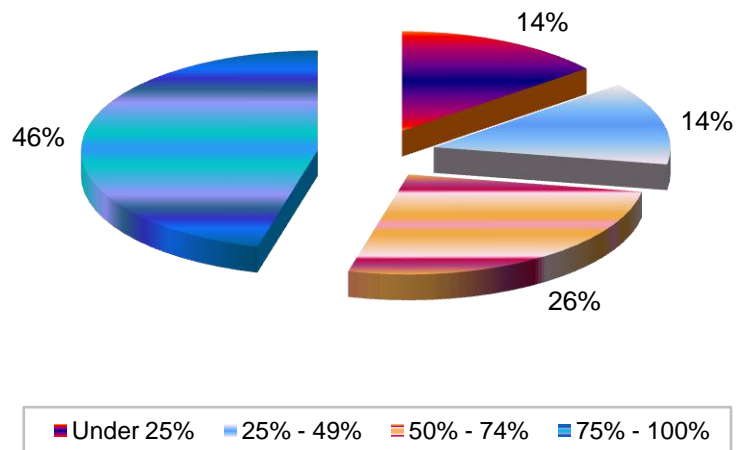
Source Tables 25 & 26

Table 27. Percentage of Graduates by Major and Relevance of University Education to Job
(as at March 1, 2004)

| Major | Relevance of university education to current job | | | | |
|-------------------------|--|-----------|-----------|-----------|------------|
| | Total | Under 25% | 25% - 49% | 50% - 74% | 75% - 100% |
| | (1) | (2) | (3) | (4) | (5) |
| All majors | 100 | 14 | 14 | 26 | 46 |
| Agriculture | 100 | 24 | 13 | 27 | 36 |
| Computer Science | 100 | 11 | 14 | 31 | 45 |
| Mathematics | 100 | 0 | 19 | 10 | 71 |
| Biochemistry | 100 | 24 | 10 | 33 | 33 |
| Biology and Environment | 100 | 19 | 13 | 25 | 44 |
| Botany and Zoology | 100 | 14 | 10 | 21 | 55 |
| Chemistry | 100 | 12 | 15 | 23 | 50 |
| Physics | 100 | 13 | 13 | 38 | 38 |

As compared to their first jobs a higher percentage of graduates (46%) indicated a university education to job relevance in the range of 75% - 100%. The majority of Mathematics majors (71%) reported the highest level of relevance of university education to their current jobs. Approximately one quarter (24%) of Agriculture and Biochemistry majors recorded an education to job relevance of less than 25%.

Chart 29. Percentage of All Majors by Relevance of University Education to Job



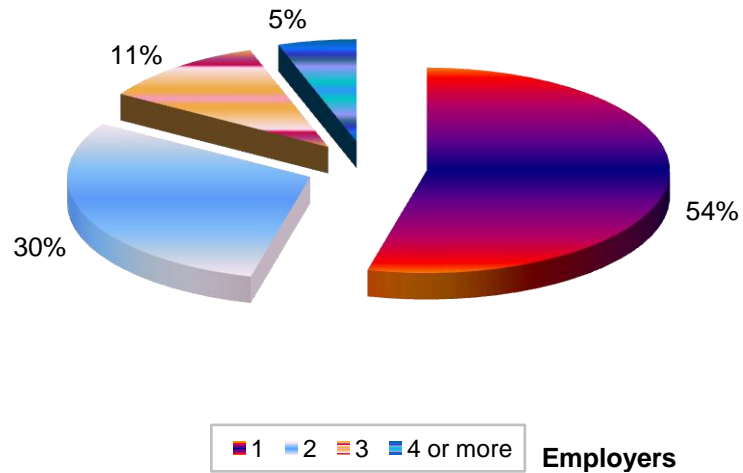
Source: Table 27

Table 28. Percentage of Graduates by Major and Number of Employers

| Major | Number of employers | | | | |
|-------------------------|---------------------|-----------|-----------|-----------|-----------|
| | Total | 1 | 2 | 3 | 4 or more |
| | (1) | (2) | (3) | (4) | (5) |
| All majors | 100 | 54 | 30 | 11 | 5 |
| Agriculture | 100 | 53 | 28 | 9 | 9 |
| Computer Science | 100 | 57 | 31 | 9 | 3 |
| Mathematics | 100 | 81 | 19 | 0 | 0 |
| Biochemistry | 100 | 46 | 50 | 4 | 0 |
| Biology and Environment | 100 | 72 | 17 | 6 | 6 |
| Botany and Zoology | 100 | 55 | 21 | 12 | 12 |
| Chemistry | 100 | 33 | 38 | 23 | 6 |
| Physics | 100 | 72 | 20 | 8 | 0 |

Table 28 reveals that 46% of all graduates held two or more jobs after graduation. Job mobility was most significant amongst Chemistry and least amongst Mathematics majors.

Chart 30. Percentage of All Majors by Number of Employers



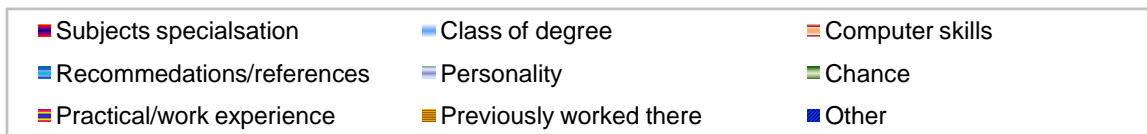
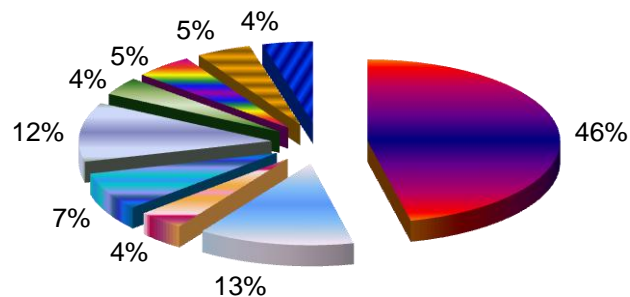
Source: Table 28

Table 29. Percentage of Graduates by Major and Most Important Reason for Recruitment

| Major | Most Important Reason for Recruitment | | | | | | | | | |
|-------------------------|---------------------------------------|------------------------------------|-----------------------|-------------------------|--|------------------|----------|----------------------------------|-----------------------------------|----------|
| | Total | Subject s special- sation | Class of degree | Com- puter skills | Recomme ndations/ reference s | Per- sonality | Chance | Practical/ work experience | Previousl y worked there | Other |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| All majors | 100 | 46 | 13 | 4 | 8 | 12 | 4 | 5 | 5 | 4 |
| Agriculture | 100 | 51 | 8 | 2 | 4 | 13 | 6 | 4 | 6 | 8 |
| Computer Science | 100 | 47 | 12 | 10 | 6 | 13 | 1 | 4 | 4 | 1 |
| Mathematics | 100 | 57 | 10 | 5 | 0 | 14 | 5 | 5 | 0 | 5 |
| Biochemistry | 100 | 42 | 13 | 0 | 13 | 21 | 4 | 4 | 0 | 4 |
| Biology and Environment | 100 | 50 | 22 | 0 | 0 | 6 | 6 | 0 | 6 | 11 |
| Botany and Zoology | 100 | 48 | 9 | 0 | 18 | 12 | 3 | 3 | 6 | 0 |
| Chemistry | 100 | 36 | 17 | 2 | 11 | 9 | 3 | 9 | 6 | 6 |
| Physics | 100 | 52 | 20 | 8 | 4 | 4 | 4 | 4 | 4 | 0 |

Including all majors, most graduates (46%) were of the opinion that the subject area of specialisation was mainly responsible for their job recruitment. One fifth of the majors in each of Biology and Environment and Physics stated that the class of degree was an important indicator in employment while a similar proportion of Biochemistry majors cited personality as a key contributor.

Chart 31. Percentage of Graduates by Most Important Reason for Recruitment



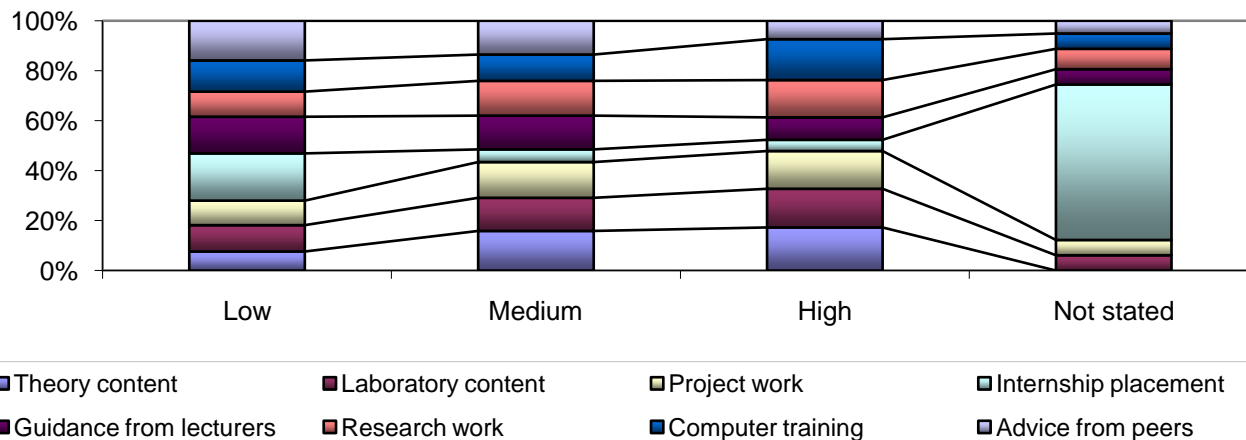
Source: Table 29

Table 30. Percentage Rating of the Contribution of Components of University Education to Cope with Job
All Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----------|-----------|-----------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 22 | 43 | 34 | 0 |
| Laboratory content | 100 | 31 | 36 | 31 | 2 |
| Project work | 100 | 29 | 39 | 30 | 2 |
| Internship placement | 100 | 56 | 14 | 9 | 22 |
| Guidance from lecturers | 100 | 43 | 37 | 18 | 2 |
| Research work | 100 | 30 | 38 | 30 | 3 |
| Computer training | 100 | 37 | 29 | 32 | 2 |
| Advice from peers | 100 | 47 | 37 | 15 | 2 |

Including all majors, Table 30 reveals that a relatively large percentage of graduates gave a low rating to 'internship placement' (56%), 'guidance from lecturers' (43%), 'advice from peers' (47%) and 'computer training' (37%) as aspects of university education that contributed to their ability to cope with their jobs. A medium ranking was shown for 'theory content' (43%), 'laboratory content' (36%), 'project work' (39%) and 'research work' (38%).

**Chart 32: Percentage Rating of the Contribution of Components of University Education to Cope with Job
All Majors**



Source: Table 30

Table 30a. Percentage Rating of the Contribution of Components of University Education to Cope with Job
Agriculture Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 20 | 49 | 31 | 0 |
| Laboratory content | 100 | 49 | 29 | 18 | 4 |
| Project work | 100 | 18 | 44 | 36 | 2 |
| Internship placement | 100 | 51 | 13 | 24 | 11 |
| Guidance from lecturers | 100 | 44 | 33 | 22 | 0 |
| Research work | 100 | 22 | 40 | 38 | 0 |
| Computer training | 100 | 33 | 24 | 40 | 2 |
| Advice from peers | 100 | 53 | 31 | 16 | 0 |

Table 30b. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Computer Science Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 20 | 48 | 32 | 0 |
| Laboratory content | 100 | 32 | 39 | 26 | 3 |
| Project work | 100 | 29 | 42 | 28 | 2 |
| Internship placement | 100 | 54 | 12 | 6 | 28 |
| Guidance from lecturers | 100 | 55 | 28 | 14 | 3 |
| Research work | 100 | 34 | 35 | 26 | 5 |
| Computer training | 100 | 17 | 32 | 49 | 2 |
| Advice from peers | 100 | 31 | 48 | 19 | 3 |

Table 30c. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Mathematics Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 14 | 67 | 19 | 0 |
| Laboratory content | 100 | 38 | 33 | 24 | 5 |
| Project work | 100 | 38 | 24 | 29 | 10 |
| Internship placement | 100 | 57 | 14 | 5 | 24 |
| Guidance from lecturers | 100 | 33 | 43 | 19 | 5 |
| Research work | 100 | 24 | 43 | 24 | 10 |
| Computer training | 100 | 24 | 33 | 33 | 10 |
| Advice from peers | 100 | 33 | 43 | 19 | 5 |

Table 30d. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Biochemistry Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 24 | 43 | 33 | 0 |
| Laboratory content | 100 | 24 | 33 | 43 | 0 |
| Project work | 100 | 38 | 38 | 19 | 5 |
| Internship placement | 100 | 76 | 0 | 0 | 24 |
| Guidance from lecturers | 100 | 33 | 52 | 14 | 0 |
| Research work | 100 | 43 | 33 | 24 | 0 |
| Computer training | 100 | 62 | 14 | 19 | 5 |
| Advice from peers | 100 | 67 | 29 | 5 | 0 |

As a component of university education to cope with their jobs, most graduates in Biochemistry (62%) (Table 30d), Biology and Environment (56%) (Table 30e), Botany and Zoology (45%) (Table 30f) and Chemistry(50%) (Table 30g) ranked 'computer training' in the low category.

Table 30e. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Biology and Environmental and Natural Resources Management Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 38 | 25 | 38 | 0 |
| Laboratory content | 100 | 31 | 38 | 25 | 6 |
| Project work | 100 | 38 | 44 | 13 | 6 |
| Internship placement | 100 | 50 | 0 | 6 | 44 |
| Guidance from lecturers | 100 | 44 | 38 | 13 | 6 |
| Research work | 100 | 25 | 44 | 25 | 6 |
| Computer training | 100 | 56 | 6 | 38 | 0 |
| Advice from peers | 100 | 50 | 31 | 19 | 0 |

A high ranking was given to 'laboratory content' by Biochemistry majors (43%) and a similar rating to 'theory content' and 'laboratory content' by graduates in Chemistry (45%).

Table 30f. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Botany and Zoology Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 28 | 38 | 35 | 0 |
| Laboratory content | 100 | 17 | 55 | 28 | 0 |
| Project work | 100 | 24 | 41 | 35 | 0 |
| Internship placement | 100 | 55 | 10 | 10 | 24 |
| Guidance from lecturers | 100 | 38 | 45 | 14 | 3 |
| Research work | 100 | 38 | 35 | 21 | 7 |
| Computer training | 100 | 45 | 31 | 21 | 3 |
| Advice from peers | 100 | 48 | 31 | 14 | 7 |

Table 30g. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Chemistry Majors

| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 23 | 32 | 45 | 0 |
| Laboratory content | 100 | 27 | 28 | 45 | 0 |
| Project work | 100 | 25 | 40 | 35 | 0 |
| Internship placement | 100 | 55 | 23 | 8 | 13 |
| Guidance from lecturers | 100 | 40 | 38 | 20 | 2 |
| Research work | 100 | 27 | 38 | 35 | 0 |
| Computer training | 100 | 50 | 33 | 17 | 0 |
| Advice from peers | 100 | 50 | 40 | 10 | 0 |

Table 30h. Percentage Rating of the Contribution of Components of University Education to Cope with Job

Physics Majors

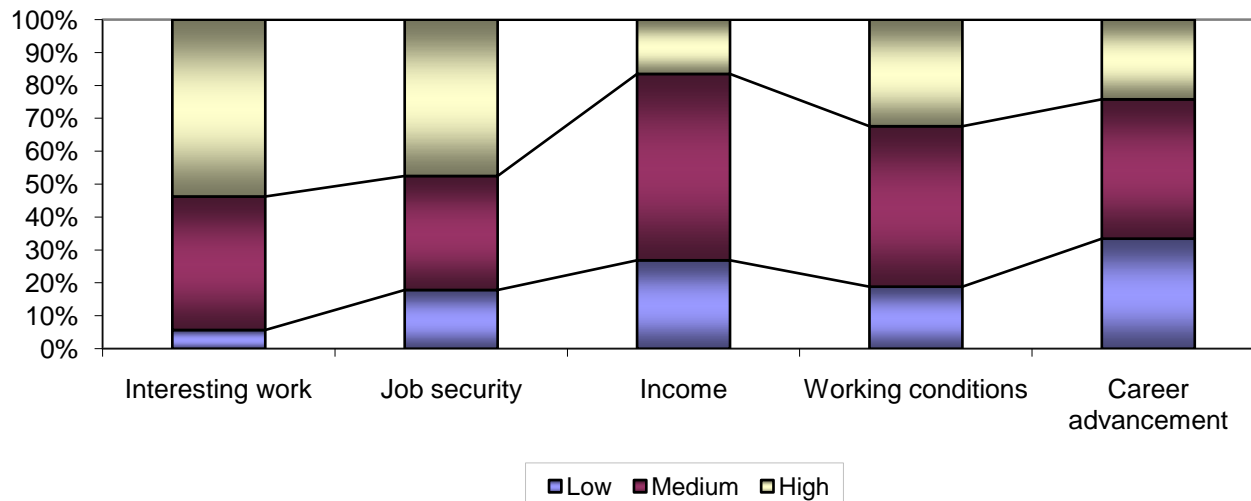
| Component of education | Rating - % | | | | |
|-------------------------|------------|-----|--------|------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | (5) |
| Theory content | 100 | 21 | 50 | 29 | 0 |
| Laboratory content | 100 | 21 | 46 | 33 | 0 |
| Project work | 100 | 42 | 29 | 29 | 0 |
| Internship placement | 100 | 54 | 21 | 0 | 25 |
| Guidance from lecturers | 100 | 38 | 38 | 25 | 0 |
| Research work | 100 | 25 | 42 | 33 | 0 |
| Computer training | 100 | 29 | 38 | 33 | 0 |
| Advice from peers | 100 | 58 | 25 | 17 | 0 |

Table 31. Percentage Rating of Components of Job Satisfaction

| Components | Rating - % | | | | |
|--------------------|------------|----------|-----------|-----------|------------|
| | Total | Low | Medium | High | Not stated |
| | (1) | (2) | (3) | (4) | |
| Interesting work | 100 | 6 | 41 | 54 | 0 |
| Job security | 100 | 18 | 35 | 47 | 0 |
| Income | 100 | 27 | 56 | 16 | 1 |
| Working conditions | 100 | 19 | 49 | 32 | 0 |
| Career advancement | 100 | 33 | 42 | 24 | 0 |

Most graduates stated that 'interesting work' (54%) and 'job security' (47%) provided a high degree of job satisfaction while a medium rating was shown for 'income' (56%), 'working conditions' (49%) and 'career advancement' (42%). In addition, a substantial proportion of all majors (33%) ranked 'career advancement' in the low category of job satisfaction.

Chart 33. Percentage Rating of Components of Job Satisfaction



Source: Table 31

Table 32. No. of Graduates by Major and Post-graduate Qualification

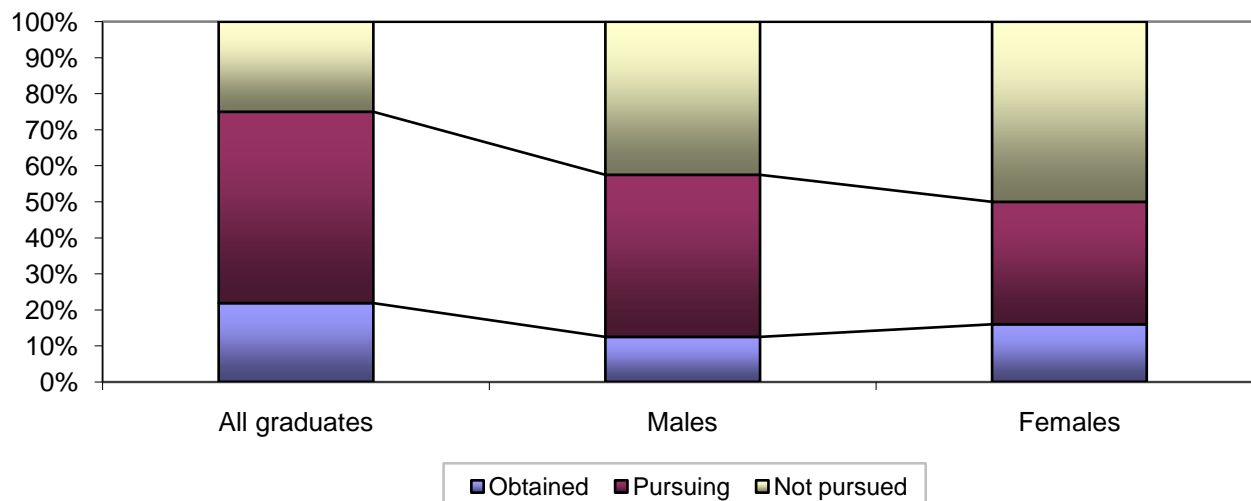
| Major | Post-graduate qualification | | | |
|-------------------------|-----------------------------|-----------|------------|-------------|
| | Total | Obtained | Pursuing | Not pursued |
| | (1) | (2) | (3) | (4) |
| All majors | 332 | 47 | 114 | 171 |
| Agriculture | 56 | 20 | 21 | 15 |
| Computer Science | 71 | 3 | 20 | 48 |
| Mathematics | 22 | 1 | 5 | 16 |
| Biochemistry | 29 | 2 | 9 | 18 |
| Biology and Environment | 21 | 0 | 6 | 15 |
| Botany and Zoology | 35 | 10 | 13 | 12 |
| Chemistry | 71 | 8 | 29 | 34 |
| Physics | 27 | 3 | 11 | 13 |

Agriculture and Botany and Zoology majors showed a relatively higher propensity to further their education (Table 32a). Approximately fifty percent of all natural science and agriculture graduates of the period 1999 to 2003 obtained (14%) or were pursuing (34%) post-graduate qualifications in 2004 (Table 32a). A review of the data by major also indicates that 41% of the Chemistry and Physics were registered in post-graduate programmes. By gender, the percentage of male and female participation in post-graduate education was similar (Tables 33a and 34a).

Table 32a. Percentage of Graduates by Major and Post-graduate Qualification

| Major | Post-graduate qualification | | | |
|-------------------------|-----------------------------|-----------|-----------|-------------|
| | Total | Obtained | Pursuing | Not pursued |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 14 | 34 | 52 |
| Agriculture | 100 | 36 | 38 | 27 |
| Computer Science | 100 | 4 | 28 | 68 |
| Mathematics | 100 | 5 | 23 | 73 |
| Biochemistry | 100 | 7 | 31 | 62 |
| Biology and Environment | 100 | 0 | 29 | 71 |
| Botany and Zoology | 100 | 29 | 37 | 34 |
| Chemistry | 100 | 11 | 41 | 48 |
| Physics | 100 | 11 | 41 | 48 |

Chart 34. Percentage of Graduates by Post-graduate Qualification and Gender



*Source: Tables
32a,
33a, 34a*

Table 33. No. of Graduates by Major and Post-graduate Qualification
Males

| Major | Total | Post-graduate qualification | | |
|-------------------------|------------|-----------------------------|-----------|-------------|
| | | Obtained | Pursuing | Not pursued |
| | (1) | (2) | (3) | (4) |
| All majors | 109 | 11 | 39 | 59 |
| Agriculture | 15 | 4 | 6 | 5 |
| Computer Science | 40 | 1 | 12 | 27 |
| Mathematics | 4 | | 3 | 1 |
| Biochemistry | 6 | 1 | 2 | 3 |
| Biology and Environment | 5 | 0 | 1 | 4 |
| Botany and Zoology | 10 | 1 | 5 | 4 |
| Chemistry | 20 | 3 | 6 | 11 |
| Physics | 9 | 1 | 4 | 4 |

Table 33a. Percentage of Graduates by Major and Post-graduate Qualification
Males

| Major | Total | Post-graduate qualification | | |
|-------------------------|------------|-----------------------------|-----------|-------------|
| | | Obtained | Pursuing | Not pursued |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 10 | 36 | 54 |
| Agriculture | 100 | 27 | 40 | 33 |
| Computer Science | 100 | 3 | 30 | 68 |
| Mathematics | 100 | 0 | 75 | 25 |
| Biochemistry | 100 | 17 | 33 | 50 |
| Biology and Environment | 100 | 0 | 20 | 80 |
| Botany and Zoology | 100 | 10 | 50 | 40 |
| Chemistry | 100 | 15 | 30 | 55 |
| Physics | 100 | 11 | 44 | 44 |

Table 34. No. of Graduates by Major and Post-graduate Qualification
Females

| Major | Total | Post-graduate qualification | | |
|-------------------------|------------|-----------------------------|-----------|-------------|
| | | Obtained | Pursuing | Not pursued |
| | (1) | (2) | (3) | (4) |
| All majors | 223 | 36 | 75 | 112 |
| Agriculture | 41 | 16 | 15 | 10 |
| Computer Science | 31 | 2 | 8 | 21 |
| Mathematics | 18 | 1 | 2 | 15 |
| Biochemistry | 23 | 1 | 7 | 15 |
| Biology and Environment | 16 | 0 | 5 | 11 |
| Botany and Zoology | 25 | 9 | 8 | 8 |
| Chemistry | 51 | 5 | 23 | 23 |
| Physics | 18 | 2 | 7 | 9 |

Table 34a. Percentage of Graduates by Major and Post-graduate Qualification
Females

| Major | Total | Post-graduate qualification | | |
|-------------------------|------------|-----------------------------|-----------|-------------|
| | | Obtained | Pursuing | Not pursued |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 16 | 34 | 50 |
| Agriculture | 100 | 39 | 37 | 24 |
| Computer Science | 100 | 6 | 26 | 68 |
| Mathematics | 100 | 6 | 11 | 83 |
| Biochemistry | 100 | 4 | 30 | 65 |
| Biology and Environment | 100 | 0 | 31 | 69 |
| Botany and Zoology | 100 | 36 | 32 | 32 |
| Chemistry | 100 | 10 | 45 | 45 |
| Physics | 100 | 11 | 39 | 50 |

Table 35. No. of Graduates by Major and Level of Post-graduate Qualification Obtained

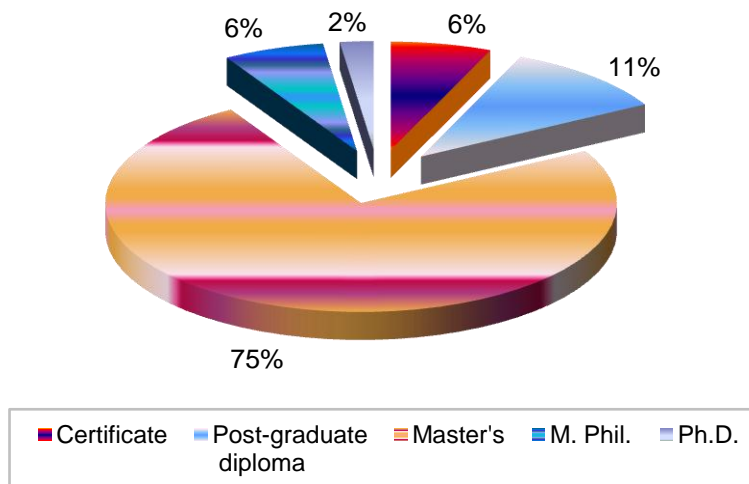
| Major | Total | Qualification obtained | | | | |
|-------------------------|-----------|------------------------|-----------------------|-----------|----------|----------|
| | | Certificate | Post-graduate diploma | Master's | M. Phil. | Ph.D. |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 47 | 3 | 5 | 35 | 3 | 1 |
| Agriculture | 20 | 2 | 1 | 16 | 1 | 0 |
| Computer Science | 3 | 1 | 1 | 1 | 0 | 0 |
| Mathematics | 1 | 0 | 0 | 0 | 1 | 0 |
| Biochemistry | 2 | 0 | 1 | 0 | 0 | 1 |
| Biology and Environment | 0 | 0 | 0 | 0 | 0 | 0 |
| Botany and Zoology | 10 | 0 | 1 | 8 | 1 | 0 |
| Chemistry | 8 | 0 | 1 | 7 | 0 | 0 |
| Physics | 3 | 0 | 0 | 3 | 0 | 0 |

Seventy four percent (74%) of the post-graduate qualifications were at the master's degree level, obtained mainly by Agriculture, Botany and Zoology and Chemistry majors (Table 35a).

Table 35a. Percentage of Graduates by Major and Level of Post-graduate Qualification Obtained

| Major | Total | Qualification obtained | | | | |
|-------------------------|------------|------------------------|-----------------------|-----------|----------|----------|
| | | Certificate | Post-graduate diploma | Master's | M. Phil. | Ph.D. |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 6 | 11 | 74 | 6 | 2 |
| Agriculture | 100 | 10 | 5 | 80 | 5 | 0 |
| Computer Science | 100 | 33 | 33 | 33 | 0 | 0 |
| Mathematics | 100 | 0 | 0 | 0 | 100 | 0 |
| Biochemistry | 100 | 0 | 50 | 0 | 0 | 50 |
| Biology and Environment | 0 | 0 | 0 | 0 | 0 | 0 |
| Botany and Zoology | 100 | 0 | 10 | 80 | 10 | 0 |
| Chemistry | 100 | 0 | 13 | 88 | 0 | 0 |
| Physics | 100 | 0 | 0 | 100 | 0 | 0 |

Chart 35. Percentage of All Majors by Level of Post-graduate Qualification Obtained



Source: Table 35a

Table 36. No. of Graduates by Major and Level of Post-graduate Qualification Pursued

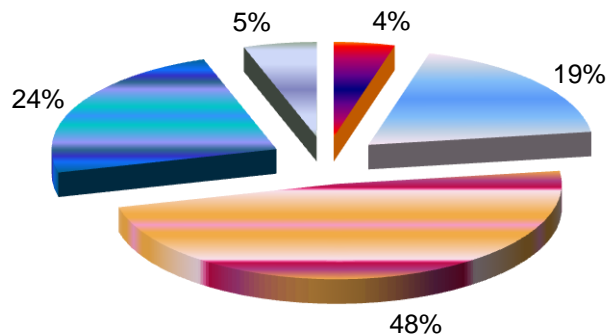
| Major | Total | Qualification pursued | | | | |
|-------------------------|------------|-----------------------|-----------------------|-----------|-----------|----------|
| | | Certificate | Post-graduate diploma | Master's | M. Phil. | Ph.D. |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 114 | 5 | 21 | 55 | 27 | 6 |
| Agriculture | 21 | 1 | 4 | 10 | 5 | 1 |
| Computer Science | 20 | 3 | 2 | 14 | 1 | 0 |
| Mathematics | 5 | 0 | 3 | 1 | 1 | 0 |
| Biochemistry | 9 | 0 | 0 | 5 | 3 | 1 |
| Biology and Environment | 6 | 0 | 0 | 4 | 2 | 0 |
| Botany and Zoology | 13 | 0 | 3 | 4 | 6 | 0 |
| Chemistry | 29 | 1 | 6 | 12 | 6 | 4 |
| Physics | 11 | 0 | 3 | 5 | 3 | 0 |

The data reveal that of the post-graduate qualifications pursued, the majority was at the master's degree level (48%) and M.Phil. (24%). The doctorates (5%) consisted mainly of graduates in Chemistry (Table 36a).

Table 36a. Percentage of Graduates by Major and Level of Post-graduate Qualification Pursued

| Major | Total | Qualification pursued | | | | |
|-------------------------|------------|-----------------------|-----------------------|-----------|-----------|----------|
| | | Certificate | Post-graduate diploma | Master's | M. Phil. | Ph.D. |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All majors | 100 | 4 | 18 | 48 | 24 | 5 |
| Agriculture | 100 | 5 | 19 | 48 | 24 | 5 |
| Computer Science | 100 | 15 | 10 | 70 | 5 | 0 |
| Mathematics | 100 | 0 | 60 | 20 | 20 | 0 |
| Biochemistry | 100 | 0 | 0 | 56 | 33 | 11 |
| Biology and Environment | 100 | 0 | 0 | 67 | 33 | 0 |
| Botany and Zoology | 100 | 0 | 23 | 31 | 46 | 0 |
| Chemistry | 100 | 3 | 21 | 41 | 21 | 14 |
| Physics | 100 | 0 | 27 | 45 | 27 | 0 |

Chart 36. Percentage of Graduates by Level of Post-graduate Qualification Pursued



■ Certificate ■ Post-graduate diploma ■ Master's ■ M. Phil. ■ Ph.D.

Source: Table 36a

Table 37. No. of Graduates by Field and Post-graduate Qualification Obtained or Pursuing

| Field | Total | Post-graduate qualification | | | | |
|--------------------------|------------|-----------------------------|-----------------------|-----------|-----------|----------|
| | | Certificate | Post-graduate diploma | Master's | M. Phil. | Ph.D. |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All fields | 161 | 8 | 26 | 90 | 30 | 7 |
| Natural Science | 39 | 3 | 3 | 11 | 17 | 5 |
| Engineering | 18 | 0 | 1 | 17 | 0 | 0 |
| Medical Science | 8 | 1 | 1 | 2 | 4 | 0 |
| Agricultural Science | 36 | 2 | 2 | 25 | 6 | 1 |
| Social Science | 26 | 2 | 7 | 17 | 0 | 0 |
| Education | 12 | 0 | 12 | 0 | 0 | 0 |
| Environmental Management | 22 | 0 | 0 | 18 | 3 | 1 |

Sixty percent (60%) of the graduates had obtained or were pursuing post-graduate qualifications in the fields of Natural Science, Agriculture or Environmental Management, similar to their first degrees; 16% were registered in Social Sciences and 11% in Engineering programmes (Table 37a).

Table 37a. Percentage of Graduates by Field and Post-graduate Qualification Obtained or Pursuing

| Field | Total | Post-graduate qualification | | | | |
|--------------------------|------------|-----------------------------|-----------------------|------------|------------|------------|
| | | Certificate | Post-graduate diploma | Master's | M. Phil. | Ph.D. |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| All fields | 100 | 100 | 100 | 100 | 100 | 100 |
| Natural Science | 24 | 38 | 12 | 12 | 57 | 71 |
| Engineering | 11 | 0 | 4 | 19 | 0 | 0 |
| Medical Science | 5 | 13 | 4 | 2 | 13 | 0 |
| Agricultural Science | 22 | 25 | 8 | 28 | 20 | 14 |
| Social Science | 16 | 25 | 27 | 19 | 0 | 0 |
| Education | 7 | 0 | 46 | 0 | 0 | 0 |
| Environmental Management | 14 | 0 | 0 | 20 | 10 | 14 |

Table 38. No. of Graduates by Major and Reason for Not Pursuing Post-graduate Qualification

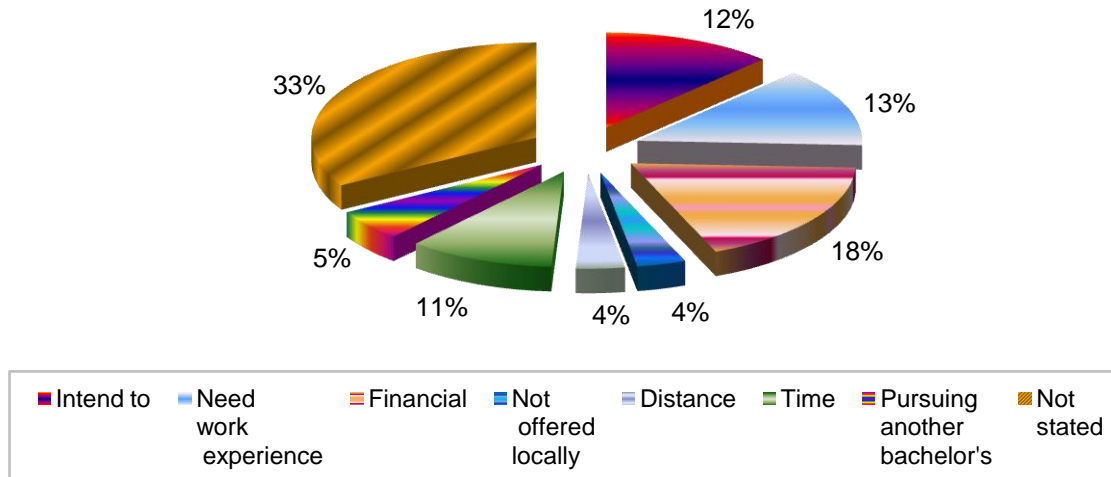
| Major | Total | Reason | | | | | | | |
|-------------------------|------------|-----------|----------------------|-----------|---------------------|----------|-----------|-----------------------------|------------|
| | | Intend to | Need work experience | Financial | Not offered locally | Distance | Time | Pursuing another bachelor's | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| All majors | 171 | 21 | 23 | 31 | 6 | 6 | 18 | 9 | 57 |
| Agriculture | 15 | 0 | 2 | 3 | 0 | 2 | 3 | 0 | 5 |
| Computer Science | 48 | 7 | 9 | 5 | 1 | 2 | 5 | 2 | 17 |
| Mathematics | 16 | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 4 |
| Biochemistry | 18 | 1 | 0 | 6 | 1 | 0 | 2 | 2 | 6 |
| Biology and Environment | 15 | 1 | 0 | 3 | 1 | 0 | 0 | 1 | 9 |
| Botany and Zoology | 12 | 1 | 1 | 3 | 0 | 0 | 0 | 1 | 6 |
| Chemistry | 34 | 3 | 8 | 7 | 1 | 1 | 4 | 2 | 8 |
| Physics | 13 | 4 | 1 | 2 | 1 | 0 | 3 | 0 | 2 |

Approximately one fifth of all majors(18%) indicated that they did not pursue post-graduate qualification due to financial constraints (Table 38a).

Table 38a. Percentage of Graduates by Major and Reason for Not Pursuing Post-graduate Qualification

| Major | Total | Reason | | | | | | | |
|-------------------------|------------|-----------|----------------------|-----------|---------------------|----------|-----------|-----------------------------|------------|
| | | Intend to | Need work experience | Financial | Not offered locally | Distance | Time | Pursuing another bachelor's | Not stated |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| All majors | 100 | 12 | 13 | 18 | 4 | 4 | 11 | 5 | 33 |
| Agriculture | 100 | 0 | 13 | 20 | 0 | 13 | 20 | 0 | 33 |
| Computer Science | 100 | 15 | 19 | 10 | 2 | 4 | 10 | 4 | 35 |
| Mathematics | 100 | 25 | 13 | 13 | 6 | 6 | 6 | 6 | 25 |
| Biochemistry | 100 | 6 | 0 | 33 | 6 | 0 | 11 | 11 | 33 |
| Biology and Environment | 100 | 7 | 0 | 20 | 7 | 0 | 0 | 7 | 60 |
| Botany and Zoology | 100 | 8 | 8 | 25 | 0 | 0 | 0 | 8 | 50 |
| Chemistry | 100 | 9 | 24 | 21 | 3 | 3 | 12 | 6 | 24 |
| Physics | 100 | 31 | 8 | 15 | 8 | 0 | 23 | 0 | 15 |

Chart 37. Percentage of All Majors by Reason for Not Pursuing Post-graduate Qualification



Source: Table 38a

Table 39. No. of Post-Graduates by Major and Country of Awarding Institution of Qualification

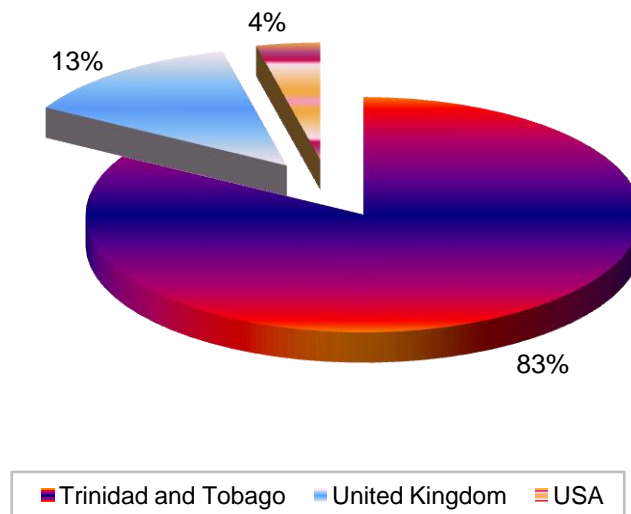
| Major | Total | Country of awarding institution | | |
|-------------------------|------------|---------------------------------|----------------|----------|
| | | Trinidad and Tobago | United Kingdom | USA |
| | (1) | (2) | (3) | (4) |
| All majors | 161 | 134 | 21 | 6 |
| Agriculture | 41 | 40 | 1 | 0 |
| Computer Science | 23 | 14 | 7 | 2 |
| Mathematics | 6 | 5 | 1 | 0 |
| Biochemistry | 11 | 10 | 1 | 0 |
| Biology and Environment | 6 | 5 | 1 | 0 |
| Botany and Zoology | 23 | 20 | 2 | 1 |
| Chemistry | 37 | 28 | 6 | 3 |
| Physics | 14 | 12 | 2 | 0 |

A substantial proportion of the post-graduates (83%) stated that the country of the awarding institution of their qualifications was Trinidad and Tobago and 13% indicated the United Kingdom, comprising mainly Computer Science and Chemistry majors (Table 39a).

Table 39a. Percentage of Post-Graduates by Major and Country of Awarding Institution of Qualification

| Major | Total | Country of awarding institution | | |
|-------------------------|------------|---------------------------------|----------------|----------|
| | | Trinidad and Tobago | United Kingdom | USA |
| | (1) | (2) | (3) | (4) |
| All majors | 100 | 83 | 13 | 4 |
| Agriculture | 100 | 98 | 2 | 0 |
| Computer Science | 100 | 61 | 30 | 9 |
| Mathematics | 100 | 83 | 17 | 0 |
| Biochemistry | 100 | 91 | 9 | 0 |
| Biology and Environment | 100 | 83 | 17 | 0 |
| Botany and Zoology | 100 | 87 | 9 | 4 |
| Chemistry | 100 | 76 | 16 | 8 |
| Physics | 100 | 86 | 14 | 0 |

Chart 38. Percentage of All Majors by Country of Awarding Institution of Qualification



Source: Table 39a

Table 40. No. of Post-Graduates by Major and Place of Residence

| Major | Total | Place of residence | |
|-------------------------|------------|---------------------|----------|
| | | Trinidad and Tobago | Abroad |
| | (1) | (2) | (3) |
| All majors | 161 | 152 | 9 |
| Agriculture | 41 | 40 | 1 |
| Computer Science | 23 | 23 | 0 |
| Mathematics | 6 | 6 | 0 |
| Biochemistry | 11 | 10 | 1 |
| Biology and Environment | 6 | 6 | 0 |
| Botany and Zoology | 23 | 19 | 4 |
| Chemistry | 37 | 35 | 2 |
| Physics | 14 | 13 | 1 |

Table 40a reveals that 94% of the post-graduates were resident in Trinidad and Tobago while pursuing further

Table 40a. Percentage of Post-Graduates by Major and Place of Residence

| Major | Total | Place of residence | |
|-------------------------|------------|---------------------|----------|
| | | Trinidad and Tobago | Abroad |
| | (1) | (2) | (3) |
| All majors | 100 | 94 | 6 |
| Agriculture | 100 | 98 | 2 |
| Computer Science | 100 | 100 | 0 |
| Mathematics | 100 | 100 | 0 |
| Biochemistry | 100 | 91 | 9 |
| Biology and Environment | 100 | 100 | 0 |
| Botany and Zoology | 100 | 83 | 17 |
| Chemistry | 100 | 95 | 5 |
| Physics | 100 | 93 | 7 |