ENROLLMENT PROJECTIONS
UNIVERSITY OF HAWAI‘I AT MĀNOA
FALL 2011 TO FALL 2016

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ENROLLMENT PROJECTIONS
UNIVERSITY OF HAWAI'I AT MĀNOA
FALL 2011 TO FALL 2016

INTRODUCTION

This report presents information on historical and projected headcount enrollment at the University of Hawai'i at Mānoa. The projections are statistical extrapolations of current trends in enrollment. They do not set enrollment targets and, in general, do not take into consideration planned or potential changes in University policies or procedures. They should be considered as an extension into the future of current enrollment trends.

The enrollment projections are based upon unduplicated headcounts of students enrolled in credit courses. Included are students enrolled in regular day courses, as well as students enrolled in continuing education credit courses offered by Outreach College. Unclassified students are also included for all years shown, both historical and projected.

Historical data are included in the figures and tables to facilitate comparison and analysis. They were extracted from student enrollment, academic crossover, and course registration data files. Information on Hawai'i public high school seniors by school district was provided by the Department of Education for the State of Hawai'i. Information on Hawai'i public and private high school graduates was obtained from the Western Interstate Commission for Higher Education (WICHE).

METHODOLOGY

The projections are broken down into three broad groups of students: classified undergraduate, classified graduate and unclassified. Classified undergraduate enrollment is sub-divided by registration status: first-time, transfer, returning and continuing. Within each registration status category, counts are shown by education level. Classified graduate enrollment is sub-divided by degree objective. Unclassified enrollment is divided by academic level (undergraduate and graduate). The projections given here may be considered mid-level forecasts. As measured over five-years, the one-year forecast error has averaged less than 1.0%, while the six-year forecast error has averaged about 7.5%. These error ranges, as applied to the forecast, are shown in Figure 3.

First-time freshmen are sub-divided by the sector and geographic location of the high school attended. Each category is forecast separately: direct entrants from Hawai'i public high schools, direct entrants from Hawai'i private high schools, freshmen from the U.S. mainland, freshmen from foreign countries (including U.S. related areas) and other first-time freshmen. Direct entrants are students from Hawai'i public and private high schools who entered UH Mānoa in the fall semester immediately following graduation from high school. These students represent the traditional core group of first-time freshmen.
The enrollment projections of **direct public entrants** are based upon the forecast of public high school seniors provided by the Hawai‘i Department of Education (see Appendix A). Historical ratios of direct public entrants to public high school senior enrollment are calculated by school district. Enrollment for each year is projected by applying averages of these ratios (by district) to the annual DOE senior enrollment forecast (ending in June of each year). The DOE forecast used in these projections was updated in May 2011.

The projection of **direct private entrants** relies upon the private high school graduate forecast for Hawai‘i published by the Western Interstate Commission for Higher Education (WICHE), most recently updated in March 2008 (see Appendix B). Historical ratios of direct private entrants to total Hawai‘i private high school graduates are first calculated. An average ratio is then applied to the WICHE annual private high school graduate forecast to yield the projected number of first-time freshmen from Hawai‘i private high schools.

First-time freshmen from the **U.S. mainland** increased from 136 in Fall 1999 to 620 in Fall 2004, an increase of over 350%. The student count then declined for a number of years but has rebounded somewhat since Fall 2007. Mainland first-time freshmen are forecast this year using a trend. First-Time freshmen from **foreign countries and U.S. related areas** (U.S. territorial possessions, commonwealths and republics within the Compact of Free Association) are relatively few in number and have been forecast using averages.

**Other first-time freshmen** include those who completed high school via the General Education Development (GED) examination and those who graduated from Hawai‘i high schools prior to the 2009-10 academic year. The total number is both small in absolute terms and relatively stable and has been set to a constant.

**Classified undergraduate transfer** enrollment is forecast using a combination of trends and constants. Transfers from other UH campuses are forecast using a mid-term trend. The other transfer types are set to constants, based upon calculated averages. Distribution by education level is made using five-year average ratios.

**Classified undergraduate returning** enrollment has shown a long-term downward trend since the late 1980s. The forecast number has been made this year using this long-term trend. Distribution by education level is made using the three-year average ratios.

**Classified undergraduate continuing** enrollment is forecast using continuation rates. In general, a continuation rate is the ratio of continuing enrollment at a given education level to the previous fall semester's total enrollment at the next lower level. In this report, freshmen are projected using the previous year's first-time freshmen, sophomores using the previous year's total freshmen, juniors using the previous year's sophomores, and seniors the previous year's upper division total (juniors plus seniors). Average continuation rates are applied to the historical or projected total enrollment by education level to forecast the following year's continuing enrollment at the next higher level.

**Classified graduate** enrollment is sub-divided by degree objective, with each category forecast separately: master, doctorate, first-professional, post-baccalaureate and graduate special. The **first-professional** count in medicine, as well as **master, post-baccalaureate** and **graduate special** enrollments, have been set to constants. **Doctorate** enrollment is
forecast using an annual growth rate. The growth rates are estimates, based upon information from campus administrators and other factors, such as the state of the economy and estimated demand. The UH School of Law began admitting part-time students in Fall 2008. These part-time admissions are expected to increase total enrollment by about 25 students per year through Fall 2012, after which the enrollment will level off at around 400 students. Graduate enrollment in the DArch program continues to show strong growth and has been forecast using a mid-term trend.

Unclassified enrollment is broken out by academic level (undergraduate / graduate), and includes students whose home-campus is not UH Mānoa. Overall unclassified enrollment has shown a long-term downward trend since Fall 2002. The forecast sets the values to constants at the Fall 2010 levels, though further decline is possible.

Table 1 presents six years of historical data with detailed forecasts by registration status and education level. Table 2 presents headcount enrollment by college, broken out by lower division, upper division and graduate level. Student semester hours offered are shown in Table 3 and full-time equivalent (FTE) course enrollment served is given in Table 4. Tables 2, 3 and 4 utilize Fall 2010 enrollment data plus the projected enrollments from 2011 to 2016 as input, then provide enrollment forecasts by college / school using the Fall 2010 proportions to distribute enrollment totals across subunits. (The breakouts by college and department shown in Tables 2, 3 and 4 are based solely upon the levels of activity measured in Fall 2010, and do not take into account trends or other changes taking place within the colleges or departments. They are suggestive of future enrollment by college and department and should be used with caution.) Headcount enrollment by attendance status is provided in Table 5. The Fall 2010 proportions have been used to allocate the projected headcounts between full-time and part-time. Appendix A shows historical and projected enrollments of Hawai‘i public high school seniors by geographic district through academic year 2015-16. The numbers shown were provided by the Hawai‘i Department of Education and were last updated in May 2011. Appendix B gives forecasts of Hawai‘i public and private high school graduates through the 2021-2022 school year. This information was published by the Western Interstate Commission for Higher Education (WICHE) in March 2008.

**ANALYSIS AND DISCUSSION**

- Headcount enrollment at the University of Hawai‘i at Mānoa declined slightly in Fall 2010, to measure 20,337 students (Table 1 and Figures 1 & 2). Enrollment has fluctuated up and down somewhat in recent years, but has remained above 20,000 for the last seven fall semesters. **Headcount enrollment is forecast to increase very slightly in Fall 2011, to measure 20,419.** Subsequent mild growth will bring the campus total to 20,677 students by Fall 2016.

- After three years of growth, first-time freshmen enrollment declined 3.1% in Fall 2010 (Figure 5). Enrollment of first-time freshmen had rebounded somewhat from the rather sharp 12.2% decline realized in Fall 2006. With the number of Hawai‘i high school graduates expected to be flat or declining through Fall 2016, little overall growth in first-time freshmen is anticipated.
• Undergraduate transfer enrollment declined slightly in Fall 2010 and has declined four out of the last six years (Figure 6). However, recent and on-going increases in enrollment at the UH Community Colleges may feed further growth in transfers at the UH four-year campuses, including UH Mānoa. On the basis of this expected growth trend, transfers are forecast to increase at about 1% per year through Fall 2016.

• As the largest component of the classified undergraduate headcount, the forecast of continuing student enrollment is the single largest determinant of the overall enrollment forecast. With the tuition increases in Fall 1996, continuing enrollment declined for six consecutive fall semesters before turning upward again in Fall 2002 (Figure 8). However, the tuition schedule increases put in place in Fall 2006 appear to have had little impact. Slight increase in continuing undergraduates is forecast through Fall 2016.

• Graduate level enrollment has posted fairly steady gains since Fall 2001 (Figure 9). The strongest growth has been in doctoral degree programs and in the DArch program in the School of Architecture. In addition, the School of Law began admitting part-time students in Fall 2008, which has produced rapid enrollment gains. In the current recessionary economic environment, further moderate increases in graduate level enrollment may be anticipated.

**SUMMARY AND CONCLUSION**

The University of Hawai‘i system is in the midst of a period of strong enrollment growth, which began in earnest in Fall 2008. Most of this growth is occurring at the UH Community Colleges, while enrollment at UH Mānoa has shown no overall growth since Fall 2006. Since these projections are trend based, only mild growth has been forecast for UH Mānoa through Fall 2016. However, students completing study at the UH Community Colleges may be expected to further their education elsewhere, and substantial increases in transfers into the UH four-year campuses in the years ahead, including UH Mānoa, are a distinct possibility.

The economic recession is undoubtedly an important factor contributing to the current historically high levels of enrollment. However, the changing nature of the job market, with college degree attainment an increasingly important requirement for career preparation, is also helping to fuel growth in enrollment. How the economic outlook might affect future enrollment is uncertain, but the demand for college from both traditional first-time students and returning adult learners should remain strong for the foreseeable future.
Figure 1
Historical and Projected Headcount Enrollment

Figure 2
Headcount Enrollment Index
Figure 3
Projected Enrollment with Error Boundaries

Figure 4
UH Mānoa Headcount Enrollment - Historical
University of Hawai‘i at Mānoa
Enrollment Projections of Credit Students

Figure 5
First-Time Freshmen

Figure 6
Classified Undergraduate Transfers
Figure 7
Classified Undergraduate Returning

Figure 8
Classified Undergraduate Continuing
Figure 9
Classified Graduate Enrollment

Figure 10
Unclassified Enrollment
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<th>HISTORICAL</th>
<th>PROJECTED</th>
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<td>773</td>
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<td>Direct from HI Private High Schools</td>
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<td>498</td>
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<td>83</td>
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<td>42</td>
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<td>150</td>
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<td>570</td>
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<td>845</td>
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<td>257</td>
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<td>19</td>
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<td>Seniors</td>
<td>4,603</td>
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# Table 1

**Headcount Enrollment of Credit Students by Registration Status**

*University of Hawai‘i at Mānoa*

**Fall 2005 to Fall 2016**

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<td>5,333</td>
<td>5,540</td>
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<td>5,769</td>
<td>5,813</td>
<td>5,833</td>
<td>5,853</td>
<td>5,863</td>
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<td>1,662</td>
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<td>641</td>
<td>640</td>
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<td>711</td>
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<td>785</td>
<td>817</td>
<td>825</td>
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<td>46</td>
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<td>323</td>
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<td>44</td>
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<td>41</td>
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<td>41</td>
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1/ Includes U.S. Possessions, Commonwealths and republics within the Compact of Free Association.

2/ Includes GED, students from Hawai‘i who are not recent high school graduates and records with invalid data on high school.

3/ Includes records with invalid data on education level.

4/ Students whose primary (home) campus, as identified in Banner / ODS, is a UH campus other than UH Mānoa.
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<td>Upper Division</td>
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<td>8,934</td>
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<td>8,914</td>
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HEADCOUNT ENROLLMENT OF CREDIT STUDENTS BY COLLEGE
UNIVERSITY OF HAWAI‘I AT MĀNOA
FALL 2010 TO FALL 2016

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1/ Includes Unclassified Undergraduates and records with invalid data on education level.
2/ Includes Unclassified Graduates.
3/ Students whose primary (home) campus, as identified in Banner / ODS, is a UH campus other than UH Mānoa.
### TABLE 3

**STUDENT SEMESTER HOURS OFFERED BY COLLEGE**

**UNIVERSITY OF HAWAI‘I AT MĀNOA**

**FALL 2010 TO FALL 2016**

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### TABLE 3

**STUDENT SEMESTER HOURS OFFERED BY COLLEGE**

**UNIVERSITY OF HAWAI‘I AT MĀNOA**

**FALL 2010 TO FALL 2016**

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# Table 4

**Full-Time Equivalent Course Enrollment Served by College**

**University of Hawai‘i at Mānoa**

**Fall 2010 to Fall 2016**

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</table>

1/ Military Studies is included with Social Sciences, College of Arts & Sciences.
# Table 5

**Headcount Enrollment by Attendance Status**

**University of Hawai'i at Mānoa**

**Fall 2010 to Fall 2016**

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1/ Includes records with invalid data on education level.

Lower Division = Freshmen, Sophomores & Unclassified Undergraduate students.

Upper Division = Juniors & Seniors.
# APPENDIX A

## HAWAI'I PUBLIC HIGH SCHOOL SENIORS BY SCHOOL DISTRICT

### ACADEMIC YEARS 2004-05 TO 2015-16

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<td>1,179</td>
<td>1,091</td>
<td>1,156</td>
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<td>1,086</td>
<td>1,096</td>
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<td>592</td>
<td>628</td>
<td>523</td>
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<td>585</td>
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<td>Other Schools</td>
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<td>183</td>
<td>224</td>
<td>248</td>
<td>234</td>
<td>237</td>
<td>329</td>
<td>379</td>
<td>429</td>
<td>480</td>
<td>523</td>
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<tr>
<td>Charter Schools 1/</td>
<td>165</td>
<td>176</td>
<td>183</td>
<td>224</td>
<td>248</td>
<td>234</td>
<td>237</td>
<td>329</td>
<td>379</td>
<td>429</td>
<td>480</td>
<td>523</td>
</tr>
</tbody>
</table>

1/ Includes all districts.

Source: Department of Education for the State of Hawai'i. Regular Education seniors only.
## APPENDIX B
### HAWAI‘I HIGH SCHOOL GRADUATES
#### WICHE HISTORICAL AND PROJECTED - 2008 SERIES

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Total Chnge</th>
<th>Public Chnge</th>
<th>Private Chnge</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991-92</td>
<td>11,520</td>
<td>9,160</td>
<td>2,360</td>
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<tr>
<td>1992-93</td>
<td>11,155</td>
<td>8,854</td>
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<td>1993-94</td>
<td>11,806</td>
<td>9,369</td>
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<td>1994-95</td>
<td>11,794</td>
<td>9,407</td>
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<tr>
<td>1995-96</td>
<td>11,836</td>
<td>9,387</td>
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<td>1996-97</td>
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<tr>
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<td>9,714</td>
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<tr>
<td>1999-00</td>
<td>13,398</td>
<td>10,437</td>
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<td>13,536</td>
<td>10,452</td>
<td>3,084</td>
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<td>12,793</td>
<td>10,013</td>
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<td>2021-22</td>
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</table>

Note: Horizontal line delimits actual from projected numbers, as measured by WICHE.

Note: WICHE "Historical" data may differ from UH IRO compiled data shown in the MAPS reports on the High School Background of First-Time Students.