

# FEDERATED STATES OF MICRONESIA

Education Sector

2016



National Department of Education

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## FSM JEMCO Education Indicators

Indicators of Educational Progress (as revised in February, 2007)

1. Number of schools by grade level (i.e., elementary and secondary schools)
2. Number of schools by size (i.e., enrollment under 50, 51-100, 101-200, 201-300, 301-500, 501-1000, and over 1000)
3. Number of schools operating half-day sessions
4. Average teacher attendance rate by grade level (elementary and secondary)
5. Number & percent of staff by education level (i.e., high school diploma, AA/AS, BA/BS, etc.)
6. Number of teachers/staff by grade level
7. Student-to-teacher ratio (private and public)
8. Base populations by school age groups (i.e., total no. of 4-5 yr. olds, 6-13 yr. olds, 14-18, and 19-22 yr olds)
9. Percent of base school-age population in school by age groups (% of 4-5 yr. olds, 6-13 yr. olds, 14-18 yr. olds actually enrolled)
10. Student enrollment by grade level and gender
11. Average daily student attendance rate by grade level and gender
12. Drop-out rate by grade level and gender (use beginning and ending enrollment)
13. Percent of Benchmarks that meet or exceed minimum competency expectation (e.g., SAT) or criterion-referenced tests (e.g., locally developed tests)
14. Completion/graduation rate for 8th and 12th grades (private and public)
15. Number and percent of grade completers going to high school and high school graduates going to higher education
16. Number of student textbooks by subject areas and grade level
17. Per pupil expenditure (annual or entire budget operating k-12 budget divided by enrolled student count)
18. Number of parent involvement activities per year by school and average number of parents participating
19. Student enrollment in local institutions of higher education (IHE)
20. Number of IHE graduates by each diploma/degree level
21. Scholarship

## INTRODUCTION

This is the 12<sup>th</sup> FSM JEMCO 21 Education Indicators Report to be submitted to JEMCO. The first report was submitted in 2005.

The purpose of the 21 JEMCO Indicators is to report both to stakeholders in the FSM, meet JEMCO requirements and improve decision making on education issues in the FSM based on the information provided herein on the progress of education.

Previous report covers areas from basic enrollment to number of schools, student performance but as we try to make this report more information, two indicators are replaced to reflect the performance on teachers and the progress of school accreditation in the FSM.

While most of the indicators are reported, there are few that due to late submission and lack of data cannot be report this year. Potential solutions for the issues will be indicated on how it will be address in the following years.

## Issues

There are still some issues that continue to hinder the timely and quality of data being reported.

- Some states continue to face late submission of data from schools to the state Department of Education.
- Two states recently changed their data managers which also cause some delays.
- Data cleaning at the state level is one issues that hinders the quality of data being reported.
- Different data management system in the four states still pose a challenge.
- Deadline for the FSM to submit the JEMCO report is still an issue as some states still have challenge collecting data from all schools in time for the Submission. July 31<sup>st</sup> deadline should be reinstated to allow time for the states to collect all school data.

## Progress

### Improving Data Quality in the FSM

The NDOE is engaged in a number of projects designed to improve the quality of data management across the FSM.

Capacity Building for Education Data Management in the Federated States of Micronesia is expected to commence in October 2016. This project proposes a broad strategy of assistance to the education sector, coordinated by NDOE and jointly funded and supported by the 2015-2016 Sector Education Grant (SEG), the Secretariat of the South Pacific (SPC), the Asian Development Bank (ADB) and the Australian Government's Pacific Technical Assistance Mechanism (PACTAM).

The project will deploy a long-term Technical Adviser, recruited and managed by SPC, to provide extensive capacity development and training in education data management, including collection, verification, analysis

and use of data for management purposes. At the same time, the project will provide technical assistance and support for the development of a centralized, online FSM Education Management Information System (FSM-EMIS) that will allow for the collection, analysis and reporting of education data and performance outcomes.

Two Professional Development academies are also scheduled to commence in October 2016.

The FSM Principals' Academy will use the FSM School Accreditation System Standards as the core curriculum of a program of school leadership and capacity development, underpinned by education data management and research capacity development. Completion of the Academy will result in improved data-driven school management skills and capacity, leading to better school accreditation evaluations and ultimately to improvements in student academic performance.

The FSM Teachers' Academy will use the FSM School Accreditation System Standards as the core curriculum of a program of skills and capacity development, underpinned by classroom and student performance data management. Completion of the Academy will result in improved teaching, student assessment and classroom management skills, leading to better school accreditation evaluations and ultimately to improvements in student academic performance.

Another component of the project is to develop a Data Management Policy for the 4 states and National Department of Education.

### **Data Coverage**

Private schools data for Pohnpei and Yap used to be excluded from previous JEMCO reports until School Year 2015-2016 with Yap reporting all their Private schools data. Pohnpei is still working with the private schools to ensure their participation in the coming year.

## 1. Number of Schools by Elementary and Secondary level, including ECE/Special Education Centers

State	ECE	Elementary	Middle School	Secondary	All Grades	Elementary to 10th Grade	Grand Total
Chuuk	0	61	0	8	5	6	80
Pohnpei	0	33	0	5	2	0	40
Yap	25	28	1	4	1	0	59
Kosrae	0	7	0	1	0	0	8
<b>Nation</b>	<b>25</b>	<b>129</b>	<b>1</b>	<b>18</b>	<b>8</b>	<b>6</b>	<b>187</b>

Table above shows the total school count in the FSM including private schools that are chartered in the FSM. Chuuk continue to merge some of its schools to address the student population resource needs.

## 2. Number of Schools by Size

State	Up to 50	51-100	101-200	201-300	301-500	501-1000	1000+	Grand Total
Chuuk	6	24	35	8	6	0	1	80
Pohnpei	7	6	7	9	6	4	1	40
Yap	37	11	7	1	1	0	0	57
Kosrae	2	0	2	1	2	1	0	8
<b>Nation</b>	<b>52</b>	<b>41</b>	<b>51</b>	<b>19</b>	<b>15</b>	<b>5</b>	<b>2</b>	<b>185</b>

Compared to previous school year, the population cluster of schools with "Up to 50" shows slight decrease. Two schools in Yap has not enrollment during school year 2015-2016 due to school damage from Typhoon Maysak. As their enrollment in not included in the above table, the total schools in table 2 is 185

## 3. Number of Schools operating half day/double sessions by elementary and secondary

## 4. Average teacher attendance rate by gender, elementary and secondary

State	Elementary			Secondary		
	Male	Female	Rate	Male	Female	Rate
Chuuk	99%	98%	98%	99%	99%	99%
Pohnpei	97%	97%	97%	95%	93%	94%
Yap	97%	97%	97%	97%	94%	96%
Kosrae	99%	99%	99%	97%	96%	97%
<b>Nation</b>	<b>98%</b>	<b>98%</b>	<b>98%</b>	<b>97%</b>	<b>96%</b>	<b>97%</b>

Indicator 4 shows a slight improvement for teachers in the secondary level with about 2% increase. Elementary rate remains the same compared to previous school year.

## 5. Number and percentage of teachers by education level

State	N/A	No Degree		AA/AS		BA/BS		MA/MS		PhD		Total
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
<b>Chuuk</b>	0	23	32	209	287	57	54	10	4	0	0	676
<b>Pohnpei</b>	2	2	7	182	219	63	45	9	9	0	0	538
<b>Yap</b>	0	45	46	106	105	21	31	3	2	0	0	359
<b>Kosrae</b>	0	7	4	83	78	18	13	0	1	0	0	204
<b>Nation</b>	2	77	89	580	689	159	143	22	16	0	0	1777
<b>Percent</b>		9%		71%		17%		2%		0%		100%

Count of teachers increase this school year with the inclusion of Yap private schools data. Previous school year data does not include Yap and Pohnpei private schools data until School Year 2015-2016. Only Pohnpei private school data is not included in the above table.

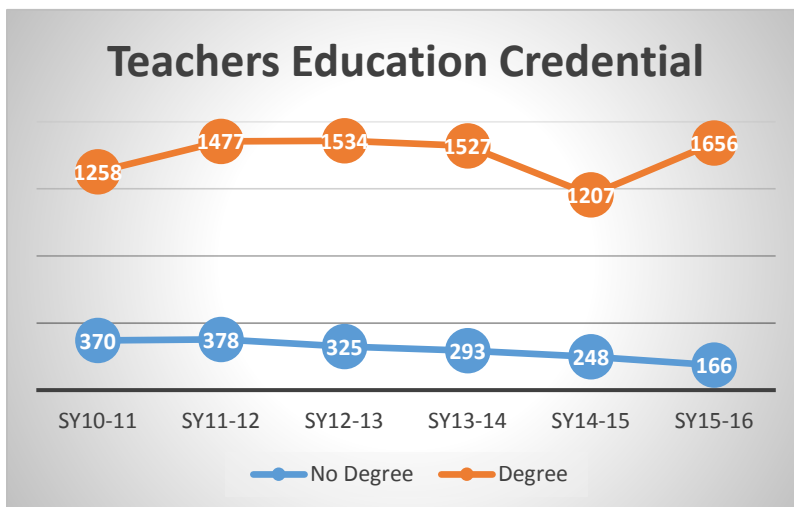


Chart on the left indicates an increase to teachers with degree for the past 6 school years and a continuous decline in teachers with No Degree.

## 6. Number of teacher and staff by elementary and secondary

State	Elementary		Secondary		Total	
	Teacher	Staff	Teacher	Staff	Teacher	Staff
Chuuk	506	2	170	4	676	6
Pohnpei	419	78	119	54	538	132
Yap	286	61	73	21	359	82
Kosrae	161	37	43	8	204	45
<b>Nation</b>	<b>1372</b>	<b>178</b>	<b>405</b>	<b>87</b>	<b>1777</b>	<b>265</b>

Indicator 6 shows a 26% decrease in school staff (none-teaching staff) compared to previous school year

## 7. Student to teacher ratio by elementary and secondary level

State	Student		Teachers		Ratio	
	Elementary	Secondary	Elementary	Secondary	Elementary	Secondary
<b>Chuuk</b>	9595	2712	506	170	19	16
<b>Pohnpei</b>	7188	2890	419	119	17	24
<b>Yap</b>	2244	888	286	73	8	12
<b>Kosrae</b>	1406	651	161	43	9	15
<b>Nation</b>	<b>20433</b>	<b>7141</b>	<b>1372</b>	<b>405</b>	<b>15</b>	<b>18</b>

During the SY2015-2016, Chuuk shows an increase to student teacher ratio due to 32 teachers who are longer part of the teaching staff for Chuuk Department of Education System.

*\*Total student population including all private schools in the 4 states is 28,736. Table above shows a total student enrollment of 27,574 which is exclusive of Pohnpei private school enrollment of 1,162 due to data not disaggregated by grade level. This also applies to the total for table 10.*

## 8. Base population by school age group (Census Population Projection for 2015)

State	4 to 5	6 to 13	14 to 18	Total
Chuuk	2316	8936	5674	16926
Pohnpei	1639	6490	4354	12483
Yap	461	1828	1283	3572
Kosrae	306	1209	780	2295
<b>Nation</b>	<b>4722</b>	<b>18463</b>	<b>12091</b>	<b>35276</b>

Table above shows the FSM population projection by school age group.

## 9. Percentage of base school-age population enrolled in school

State	4 to 5	6 to 13	14 to 18	Total
Chuuk	25%	90%	59%	71%
Pohnpei	34%	88%	69%	74%
Yap	67%	93%	73%	83%
Kosrae	46%	115%	90%	98%
<b>Nation</b>	<b>34%</b>	<b>91%</b>	<b>66%</b>	<b>75%</b>

In comparing the population projection, Nationwide, FSM is serving 75% of its school age population, a slight increase by 1% from previous year.

## 10. Student enrollment by elementary and secondary level and gender

State	Elementary		Secondary		Total
	Male	Female	Male	Female	
<b>Chuuk</b>	5024	4571	1297	1415	12307
<b>Pohnpei</b>	3650	3538	1469	1421	10078
<b>Yap</b>	1186	1058	473	415	3132
<b>Kosrae</b>	716	690	344	307	2057
<b>Nation</b>	<b>10576</b>	<b>9857</b>	<b>3583</b>	<b>3558</b>	<b>27574</b>

Table above shows the student population both in elementary and secondary.

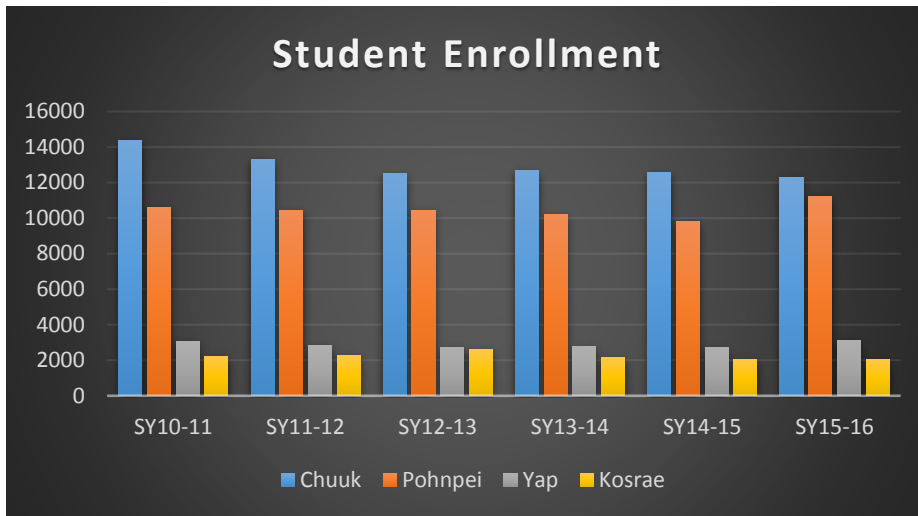


Chart on the left shows the enrollment trend of students in the FSM. Only School Year 2015-2016 enrollment include all private and public schools in the FSM. Previous year's exclude Yap and Pohnpei private school data until this school year.

## 11. Average daily student attendance rate by elementary and secondary level and gender

State	Elementary			Secondary		
	Male	Female	Rate	Male	Female	Rate
Chuuk	90%	92%	91%	97%	97%	97%
Pohnpei	96%	91%	94%	99%	99%	99%
Yap	99%	99%	99%	na	na	na
Kosrae	98%	99%	94%	93%	91%	92%
<b>Nation</b>	<b>94%</b>	<b>99%</b>	<b>93%</b>	<b>86%</b>	<b>85%</b>	<b>85%</b>

Student attendance rate remains constant over the four states in both school levels.

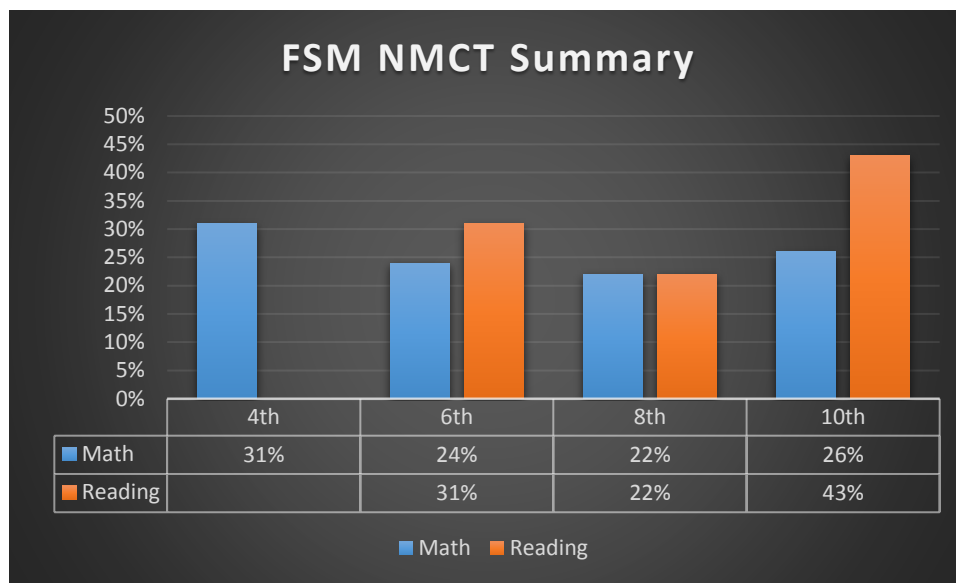
## 12. Drop-out rate by grade level and gender

Grade Level	Enrollment		Drop Out	
	Female	Male	Female	Male
Grade ECE	997	1049	2.2%	2.2%
Grade 1	1192	1383	0.2%	0.7%
Grade 2	1168	1223	0.5%	1.7%
Grade 3	1072	1230	0.6%	1.1%
Grade 4	1116	1219	1.0%	1.2%
Grade 5	1131	1168	0.6%	1.0%
Grade 6	1122	1136	0.6%	1.0%
Grade 7	1076	1143	0.9%	1.2%
Grade 8	983	1025	1.0%	1.5%
Grade 9	1051	1035	0.4%	0.3%
Grade 10	976	1104	0.8%	0.7%
Grade 11	725	740	0.7%	0.9%
Grade 12	806	704	0.1%	0.3%
<b>Grand Total</b>	<b>13415</b>	<b>14159</b>	<b>0.7%</b>	<b>1.1%</b>

Table above indicates the number of drop outs by grade. Only Pohnpei state data is not included this year



### 13. Percent of Benchmarks that meet or exceed minimum competency expectation



The FSM National Minimum Competency Tests (NMCT) is a series of test instruments used as the basis for measuring the effectiveness of the National Curriculum Minimum Standards which are implemented in schools across the FSM. The chart above displays the strengths and weaknesses of the **Standards** and **Benchmarks** in all the four states in grades 4, 6, 8, and 10 for Mathematics and grades 6, 8, and 10 in English Language Arts.

**Math:** The Math NMCT measures the progress of the math benchmarks that were set by the National Department of Education.

4<sup>th</sup> Grade: 31% of the Math benchmarks meet or exceed minimum competency expectations.

6<sup>th</sup> Grade: 24% meet or exceed minimum competency expectations.

8<sup>th</sup> Grade: 22% meet or exceed minimum competency expectations.

10<sup>th</sup> Grade: 26% meet or exceed minimum competency expectations.

**Reading:** The Math NMCT measures the progress of the math benchmarks that were set by the National Department of Education.

6<sup>th</sup> Grade: 31% of the Reading Benchmarks meet or exceed minimum competency expectations.

8<sup>th</sup> Grade: 22% meet or exceed minimum competency expectations.

10<sup>th</sup> Grade: 43% meet or exceed minimum competency expectations.

## 14. Completers/graduation rate for 8<sup>th</sup> and 12<sup>th</sup> graders (public/private)

	Type	8 <sup>th</sup> Grade Enrolled	8 <sup>th</sup> Grade Graduated	Graduation Rate	12 <sup>th</sup> Grade Enrolled	12 <sup>th</sup> Grade Graduated	Graduation Rate
Chuuk	Public	798	602	75%	420	419	99.8%
	Private	66	62	94%	118	118	100%
Pohnpei	Public	772	716	93%	626	525	84%
	Private	na	na	na	na	na	na
Yap	Public	192	190	99%	171	166	97%
	Private	47	47	100%	30	30	100%
Kosrae	Public	161	151	94%	144	128	89%
	Private	4	4	100%	0	0	0

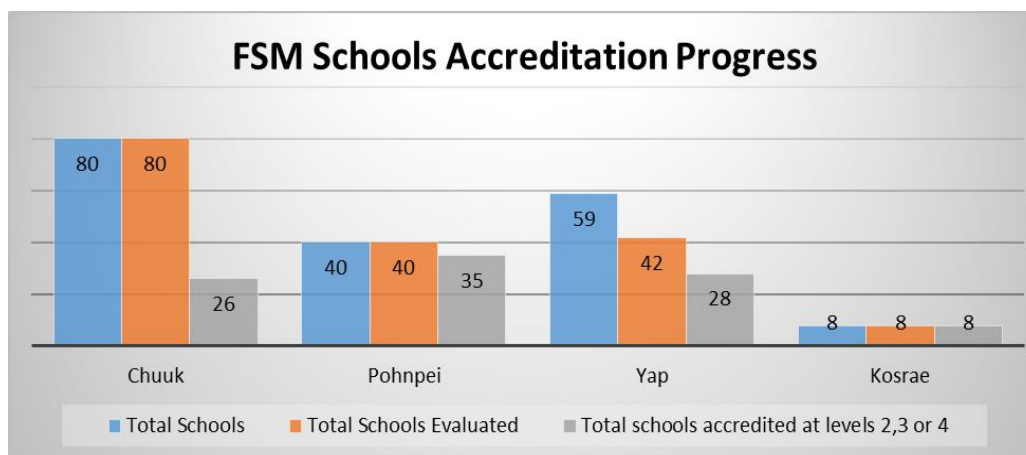
Compared to previous year all states show an increase in their graduation rate.

## 15. Number and percentage of grade 8<sup>th</sup> completers going to high school and 12<sup>th</sup> graders going to higher education

State	8 <sup>th</sup> Grade Graduated	8 <sup>th</sup> Graders going to High School	Percent	12 <sup>th</sup> Grade Graduated	12 <sup>th</sup> Graders going to IHE	Percent
Chuuk	664	664	100%	537	181	34%
Pohnpei	716	716	100%	525	473	90%
Yap	237	237	100%	196	na	na
Kosrae	155	155	100%	128	128	100%
<b>Nation</b>	<b>1772</b>	<b>1772</b>	<b>100%</b>	<b>1386</b>	<b>782</b>	<b>56%</b>

12<sup>th</sup> grades who will be progressing into Institute of Higher Education is based on those identified to be attending Local College.

## 16. FSM School Accreditation

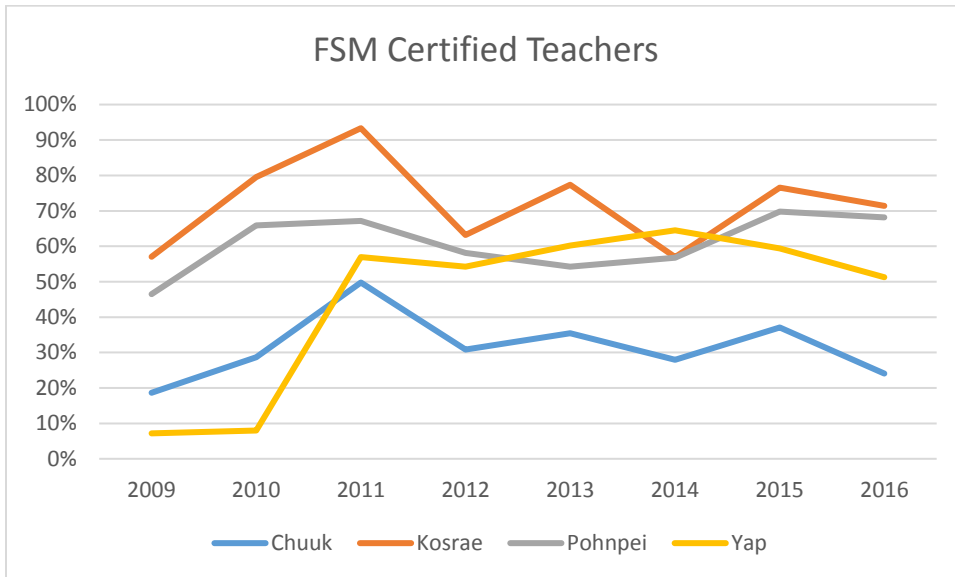


The chart above indicates that about 52% of the 187 total schools in the FSM has been accredited under the FSM School Accreditation System.

## 17. Per Pupil Expenditure (annual operating K-12 budget divided by enrollment)

State	SEG	ESG	Local	Enrollment	PPE	
Chuuk		\$3,937,008	\$9,371,396	\$280,180	12,307	\$1,104.13
Pohnpei		\$2,631,901	\$7,156,624	\$231,425	11,240	\$891
Yap		\$1,510,839	\$3,717,014	\$81,127	3,132	\$1,695
Kosrae		\$1,146,609	\$2,383,075	\$7,268	2,057	\$1,719
<b>Nation</b>		<b>\$9,226,357.00</b>	<b>\$22,628,109.00</b>	<b>\$600,000.00</b>	<b>28,736</b>	<b>\$1,129</b>

Comparing to previous school year, Per Pupil Expenditure for the Nation shows a slight decrease from \$1,198 down to \$1,129. The total student enrollment is different from table 7, 10, 12 as it include the Pohnpei private school data that is not disaggregated by gender. 18. Teacher Certification



From 2009 to 2016, percent of teachers who are certified and teaching in the FSM schools increased over the past 7 years.

## 19. Student Enrollment in local Institution of Higher Education (IHE) by gender

Campus	Summer 2015		Summer 2015 Total	Fall 2015		Fall 2015 Total	Spring 2016		Spring 2016 Total	Grand Total
	Female	Male		Female	Male		Female	Male		
Chuuk	87	44	131	146	87	233	126	68	194	558
Kosrae	92	75	167	111	110	221	71	87	158	546
National	239	149	388	545	407	952	511	357	868	2208
Pohnpei	169	150	319	311	321	632	225	251	476	1427
Yap	48	28	76	97	86	183	89	73	162	421
<b>Grand Total</b>	<b>635</b>	<b>446</b>	<b>1081</b>	<b>1210</b>	<b>1011</b>	<b>2221</b>	<b>1022</b>	<b>836</b>	<b>1858</b>	<b>5160</b>

Compared to SY2013-2014 Student enrollment, student enrollment declined by 7% and 4 % respectively.

## 20. Number of Local IHE graduates by each diploma/degree level and by gender

Program	Summer 2015		Summer 2015 Total	Fall 2015		Fall 2015 Total	Spring 2016		Spring 2016 Total	Grand Total
	Female	Male		Female	Male		Female	Male		
AA in LA/Health Career Opportunity Prog	4		4	7	1	8	8	1	9	21
AA in Liberal Arts	5	3	8	7	10	17	10	3	13	38
AA in Micronesian Studies		3	3	8	4	12	9	5	14	29
AA in Teacher Preparation	11	9	20	24	9	33	14	11	25	78
AAS in Building Technology-CE					2	2		1	1	3
AAS in Electronic Technology		1	1	3	9	12	2	3	5	18
AAS in Telecommunications				1	1	2		7	7	9
Advanced CA in Telecommunication Tech								2	2	2
AS in Ag. & Natural Resource Management		1	1	2	5	7	2	2	4	12
AS in Business Administration		2	2	12	4	16	7	6	13	31
AS in Computer Information Systems		1	1	4	3	7	2	4	6	14
AS in Hospitality and Tourism Management	2		2		1	1	4		4	7
AS in Marine Science		1	1	3	2	5	3	3	6	12
AS in Nursing-RN				3		3				3
AS in Public Health				2		2	1	1	2	4
AS in Teacher Education-Elementary					1	1	1		1	2
CA in Agriculture and Food Technology				1	1	2	7	10	17	19
CA in Bookkeeping Program	2		2	7	3	10	2	1	3	15
CA in Cabinet Making/Furniture Making					2	2	1	1	2	4
CA in Carpentry					1	1	1	2	3	4
CA in Construction Electricity					5	5	2		2	7
CA in Electronic Engineering Technology					8	8		3	3	11
CA in Motor Vehicle Mechanics								2	2	2
CA in Nursing Assistant				2		2	4	1	5	7
CA in Refrigeration and Air Conditioning					1	1		3	3	4
CA in Secretarial Science Program				2	1	3				3
CA in Trial Counselors Program	1		1	4	2	6	1		1	8
Career Education					2	2				2
TYC in Accounting				4	2	6	1		1	7
TYC in General Business				3	5	8		1	1	9
TYC in Public Health							4	3	7	7
TYC in Teacher Preparation-Elementary	1		1	7	4	11	7	4	11	23
<b>Grand Total</b>	<b>26</b>	<b>21</b>	<b>47</b>	<b>106</b>	<b>89</b>	<b>195</b>	<b>93</b>	<b>80</b>	<b>173</b>	<b>415</b>

Previous year shows 398 total graduates compared to 415 this years. This indicates a 4% increase of graduates from College of Micronesia

## 21. Scholarship

### 2015-2016

Recipients	Freshman	Sophomore	Junior	Senior	Graduate	Postgraduate	Total
Chuuk	55	58	38	19	6	4	180
Kosrae	24	31	7	15	3	0	80
Pohnpei	18	21	21	26	9	0	95
Yap	20	29	32	18	8	0	107
<b>TOTAL</b>	<b>117</b>	<b>139</b>	<b>98</b>	<b>78</b>	<b>26</b>	<b>4</b>	<b>462</b>

### 2015-2016

Graduates	Associate	3rd Year	Bachelor	Master	Doctorate	Total
Chuuk	22	1	17	3	1	44
Kosrae	10	2	4	0	0	16
Pohnpei	1	0	11	4	0	16
Yap	17	8	15	4	0	44
<b>TOTAL</b>	<b>50</b>	<b>11</b>	<b>47</b>	<b>11</b>	<b>1</b>	<b>120</b>

A total of 462 students throughout the states received scholarship this year. Comparing to last year's data, there is a 21% drop in students receiving scholarships. With the decreased number in recipients, students achieving their degrees also dropped.