CM

SENATE STATE OF MINNESOTA NINETY-THIRD SESSION

S0757-1

S.F. No. 757

(SENATE AUTHORS: GUSTAFSON, Kunesh, Westlin, Pratt and Duckworth)DATED-PGOFFICIAL STATUS01/26/2023407Introduction and first reading Introduction and first reading Referred to Education Policy Comm report: To pass as amended and re-refer to State and Local Government and Veterans 02/08/2023

1.1	A bill for an act
1.2 1.3	relating to education; providing for computer science education advancement; authorizing rulemaking; appropriating money.
1.4	BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA:
1.5	Section 1. COMPUTER SCIENCE EDUCATION ADVANCEMENT PROGRAM.
1.6	Subdivision 1. Definitions. (a) "Computer science" means the study of computers and
1.7	algorithmic processes, including their principles, their hardware and software designs, their
1.8	implementation, and their impact on society.
1.9	(b) "Computer science courses and content" means courses at:
1.10	(1) elementary and middle schools that teach computer science as standalone
1.11	implementations or embedded in other subjects; and
1.12	(2) high schools that teach computer science as standalone courses and focus on teaching
1.13	students how to create new technologies.
1.14	(c) "High-quality computer science educator training" means activities that:
1.15	(1) clarify the conceptual foundations of computer science;
1.16	(2) teach research-based practices, including hands-on and inquiry-based learning;
1.17	(3) are primarily intended for existing teachers with or without prior exposure to computer
1.18	science with options for advanced training for teachers; and
1.19	(4) align to existing integrated computer science standards in Minnesota or nationally
1.20	recognized standards, including the Computer Science Teachers' Association's kindergarten
1.21	through grade 12 computer science education standards.

Section 1.

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
2.1	(d) "High	-quality computer sc	ience professio	nal learning providers"	means institutions
2.2	of higher edu	acation, nonprofits, o	ther state-funde	ed entities, or private en	tities that have
2.3	successfully	designed, implemente	ed, and scaled h	igh-quality computer sc	vience professional
2.4	learning for t	teachers as defined in	paragraph (c).		
2.5	Subd. 2.	Computer science eq	lucation super	visor and advisory co	mmittee. (a) The
2.6	Department of	of Education shall cre	ate a full-time o	computer science superv	visor position. The
2.7	computer sci	ence supervisor shall	be dedicated to	the implementation of	f this act and the
2.8	implementat	ion of the computer s	cience educatio	on strategic plan.	
2.9	<u>(b)</u> The D	Department of Education	on shall establi	sh a computer science e	education advisory
2.10	committee to	develop a state strate	gic plan for lor	ng-term and sustained g	rowth of computer
2.11	science educ	ation in all kindergar	ten through gra	de 12 public schools an	nd public charter
2.12	schools.				
2.13	(c) Public	members of the advi	sory committee	e may be compensated a	and reimbursed for
2.14	expenses in a	accordance with Min	nesota Statutes,	section 15.059, subdiv	ision 3.
2.15	(d) Meeti	ngs of the advisory co	ommittee are su	bject to the Minnesota (Open Meeting Law
2.16	under Minne	esota Statutes, chapter	<u>·13D.</u>		
2.17	<u>(e)</u> The co	omputer science educ	ation advisory	committee shall consis	t of the following
2.18	members:				
2.19	<u>(1) one m</u>	nember of the house of	of representative	es appointed by the spe	aker of the house
2.20	and one men	nber appointed by the	minority leade	er of the house;	
2.21	(2) one se	enator appointed by the	ne senate major	rity leader and one sena	tor appointed by
2.22	the senate m	inority leader;			
2.23	(3) one m	nember appointed by	the governor;		
2.24	(4) the co	ommissioner of educa	tion or the com	missioner's designee;	
2.25	(5) the co	mmissioner of highe	r education or t	he commissioner's desi	gnee;
2.26	(6) one re	presentative of the P	rofessional Edu	acator Licensing and Sta	andards Board;
2.27	(7) one re	presentative of the C	omputer Scien	ce Teachers' Association	n of Minnesota;

- 2.28 (8) one representative from the business community;
- 2.29 (9) one representative from the Minnesota Technology Association;
- 2.30 (10) one representative from a nonprofit organization working with students and teachers
- 2.31 <u>in computer science;</u>

Section 1.

	SF757	REVISOR	СМ	S0757-1	1st Engrossment			
3.1	(11) one rep	presentative from t	he Minnesota A	ssociation for School A	Administrators;			
3.2	(12) one representative from Education Minnesota;							
3.3	<u>(13) one rep</u>	presentative from t	he Minnesota A	ssociation of Colleges	for Teacher			
3.4	Education;							
3.5	(14) one rep	presentative from (CSforAll Minnes	sota; and				
3.6	(15) one co	mputer science tea	cher from the se	even-county metropolit	an area and one			
3.7	computer scien	ce teacher from ou	itside the seven-	county metropolitan a	<u>·ea.</u>			
3.8	(f) The com	puter science educ	ation advisory o	committee shall develo	p a state strategic			
3.9	plan for a state	wide computer scie	ence education p	program, including the	following:			
3.10	(1) a statem	ent of purpose that	t describes the o	bjectives or goals the I	Department of			
3.11	Education will	accomplish by imp	plementing a con	mputer science educati	on program, the			
3.12	strategies by w	hich those goals w	ill be achieved,	and a timeline for achi	eving those goals;			
3.13	<u>(2) a summa</u>	ary of the current st	ate landscape fo	r kindergarten through	grade 12 computer			
3.14	science educati	on, including dive	rsity of students	taking these courses;				
3.15	(3) the creat	tion or expansion of	of flexible option	ns to license computer	science teachers,			
3.16	which may inc	lude approval code	es, technical peri	nits, ancillary licenses	, and standard			
3.17	licenses;							
3.18	(4) a descri	ption of how the st	ate will support	the expansion of comp	outer science			
3.19	education oppo	ortunities in every p	public school and	d public charter school	in the state within			
3.20	five years, with	n a focus on ensuri	ng equitable acc	ess;				
3.21	(5) identifyi	ng high-quality cor	nputer science pr	ofessional learning pro	viders for teachers;			
3.22	<u>(6)</u> an ongo	ing evaluation pro-	cess that is over	seen by the Departmen	t of Education;			
3.23	(7) proposed	d rules that incorpo	rate the principle	es of the state strategic	plan into the state's			
3.24	public education	on system as a who	<u>le;</u>					
3.25	<u>(8)</u> recomm	endations for long	-term expansion	and sustainability of c	computer science			
3.26	education, incl	uding:						
3.27	(i) impleme	ntation of a requir	ement that every	v kindergarten through	grade 12 public			
3.28	school and pub	lic charter school e	mploys at least o	ne certified or endorsed	l computer science			
3.29	teacher, which	may be met throug	gh multiple Depa	artment of Education a	pproved processes			
3.30	for certification	and endorsement	, including but n	ot limited to endorsing	a certified teacher			
3.31	endorsed in and	other subject area;						

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
4.1	(ii) imp	elementation of a high s	school compute	r science graduation re	quirement with an
4.2	appropriate		A	C	
4.3	(iii) the	development of standa	lone kindergarte	n through grade 12 star	idards for computer
4.4	science;				
4.5	(iv) trai	ining preservice teache	rs in computer	science education: and	
4.3					
4.6		ege admission requiren		sota State Colleges and	Universities taking
4.7	into accour	nt computer science cro	edits; and		
4.8	<u>(9)</u> a de	escription of existing g	aps in computer	science education acc	ess, participation,
4.9	and succes	s by geography and su	bgroup of stude	nts and a description o	f how to equitably
4.10	address the	ese gaps.			
4.11	(g) By	December 31, 2023, th	e Department o	f Education shall publi	sh the proposed
4.12	state strate	gic plan for public feed	lback.		
4.13	<u>(h)</u> By	February 28, 2024, the	Department of	Education shall presen	it the adopted state
4.14	strategic pl	lan described in paragr	aph (c) to the cl	nairs of the legislative	committees with
4.15	jurisdiction	n over education.			
4.16	<u>(i)</u> The	commissioner of educ	ation, or the con	nmissioner of educatio	n's designee, may
4.17	approve up	dates and changes to the	e state strategic p	blan described in paragra	aph (c) as necessary
4.18	for the suc	cessful implementation	n of kindergarte	n through grade 12 con	nputer science
4.19	education.				
4.20	(j) The	Department of Education	on shall update t	he legislative committe	es with jurisdiction
4.21	over educa	tion on all changes to	the strategic pla	n described in paragrap	oh (c) approved by
4.22	the commi	ssioner of education's of	designee since t	he last presentation to	each respective
4.23	entity.				
4.24	<u>(k)</u> The	computer science edu	cation advisory	committee expires on	February 28, 2024.
4.25	The comm	ittee may remain opera	tional for an ad	ditional two years at th	ne discretion of the
4.26	commissio	ner of education.			
4.27	Subd. 3	8. Computer science e	ducator trainir	1g. (a) Funding from the	e computer science
4.28	education a	advancement appropria	ation must be us	ed by the Department	of Education to
4.29	develop an	d implement, or award	grants or subco	ontract with eligible en	tities, for the
4.30	developme	ent and implementation	of high-quality	r, coordinated teacher r	ecruitment and
4.31	educator tr	aining programs for the	required comp	iter science courses and	l content as defined
4.32	in subdivis	ion 1 and aligned to th	e state strategic	plan as developed und	ler subdivision 3.

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
5.1	(b) For the p	ourposes of this su	bdivision, eligil	ole entities include:	
5.2	<u>(1) a consor</u>	tium of local educ	ational agencies	s in the state; and	
5.3	<u>(2) high-qua</u>	ality computer scie	nce professiona	l learning providers, inc	cluding institutions
5.4	of higher educa	tion in the state, n	onprofits, other	state-funded entities, o	or private entities
5.5	working in part	mership with a con	nsortium of loca	l educational agencies.	
5.6	(c) For purp	oses of this subdi	vision, eligible ı	uses of funding include	<u>:</u>
5.7	<u>(1) high-qua</u>	ality professional l	earning opportu	nities for kindergarten	through grade 12
5.8	computer scien	ce content that:			
5.9	(i) are create	ed and delivered in	n a consistent m	anner across the state;	
5.10	(ii) are made	e available with no	out-of-pocket	expenses to educators, i	ncluding teachers,
5.11	counselors, adn	ninistrators, and or	ther district emp	loyees as approved by	the Department of
5.12	Education, scho	ools, and school di	stricts;		
5.13	(iii) are mad	le available asyncl	hronously online	e, in person, and online	or hybrid as
5.14	determined app	propriate by the De	epartment of Edu	acation;	
5.15	(iv) include	introductory, interi	nediate, and adv	anced trainings aligned	to the kindergarten
5.16	through grade 1	2 academic stand	ards or, as neces	sary, other standards a	pproved by the
5.17	Department of	Education, specifie	ed for each of th	e grade bands kinderga	rten through grade
5.18	2, grades 3 to 5	, grades 6 to 8, an	d grades 9 to 12	2	
5.19	(v) include	Advanced Placem	ent Computer S	cience Principles, Adva	anced Placement
5.20	Computer Scien	nce A trainings, an	d concurrent en	rollment credit comput	er science courses;
5.21	and				
5.22	(vi) are reas	onably accessible	geographically	to all Minnesota educa	tors;
5.23	(2) travel ex	penses for kinder	garten through g	grade 12 computer scien	nce teachers:
5.24	(i) for attend	ding training oppo	rtunities under o	clause (1); and	
5.25	(ii) deemed	appropriate and a	pproved by the o	commissioner of educa	tion, or the
5.26	commissioner of	of education's desi	gnee;		
5.27	(3) any futur	re credentialing for	·kindergarten th	rough grade 12 compute	er science teachers,
5.28	including Caree	er and Technical E	ducation and ac	ademic endorsements;	
5.29	(4) supports	for kindergarten	hrough grade 12	2 computer science pro	fessional learning,
5.30	including ment	oring and coachin	<u>g;</u>		

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
6.1	(5) creation	and deployment of	resources to p	romote training oppor	tunities and
6.2	recruitment of	kindergarten throug	h grade 12 con	nputer science teacher	<u>'s;</u>
6.3	(6) creation	or purchase of reso	ources to suppo	ort implementation app	proved by the
6.4	commissioner	of education or the	commissioner	of education's designe	<u>e;</u>
6.5	(7) creation	and deployment of	resources to p	romote learning oppor	rtunities or recruit
6.6	students to eng	age in the learning	opportunities;	and	
6.7	<u> </u>			nnel or contractors to or	
6.8 6.9	<u>initiative, deve</u> (1).	lop programs and tr	ainings, and d	eliver training opportu	nities under clause
			C 1: 41	1 / 1	· · 1' '1 1
6.10 6.11				rrough grants or subco ment of Education. Th	
6.12		address how the en	•	ment of Education. Th	e application must,
6.13	(1) reach ne	ew and existing teac	hers with little	to no computer science	ce background;
6.14	(2) attract a	nd support educator	rs from school	s that do not have estab	blished computer
6.15	science educati	ion programs;			
6.16	(3) use researched	arch- or evidence-ba	used practices f	or high-quality profess	tional development;
6.17	<u>(4) focus th</u>	e professional learn	ing on the con	ceptual foundations of	f computer science;
6.18	<u>(5) reach ar</u>	1d support subgroup	os underreprese	ented in computer scie	nce;
6.19	(6) provide	teachers with concre	ete experience	hrough hands-on, inqu	iry-based practices;
6.20	<u>(7) accomm</u>	nodate the particular	teacher and s	tudents needs in each o	district and school;
6.21	and				
6.22	(8) ensure t	hat participating dis	stricts must be	gin offering courses or	content within the
6.23	same or subsec	luent school year af	ter the teacher	receives the profession	nal learning.
6.24	(e) The Dep	partment of Education	on shall priorit	ize the following appl	ications:
6.25	(1) consorti	ums of local educat	tional agencies	that are working in pa	artnership with
6.26	providers of high	gh-quality professio	nal learning fo	r kindergarten through	grade 12 computer
6.27	science;				
6.28	(2) proposa	ls that describe stra	tegies to increa	ase enrollment overall,	including but not
6.29	limited to subg	roups of students tha	at are traditiona	lly underrepresented in	n computer science;
6.30	and				

6

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
7.1	<u>(3)</u> prop	osals from rural or ur	ban areas with a	low penetration of k	indergarten through
7.2	grade 12 co	mputer science offeri	ngs, including l	ocal education consor	tiums within these
7.3	areas.				
7.4	<u>(f)</u> The :	award recipient shall	report, for all fu	nding received under	this act annually, at
7.5	<u>a minimum</u>	<u>:</u>			
7.6	<u>(1) the r</u>	number of teachers:			
7.7	<u>(i) train</u>	ed within each of elen	nentary, middle,	and high school; and	L
7.8	<u>(ii)</u> train	ed within each trainin	ng offering as ou	utlined in paragraph (c), clause (1), items
7.9	<u>(iv)</u> and (v)	<u>;</u>			
7.10	<u>(2)</u> stud	ents reached;			
7.11	(3) the r	number and percent of	f students reache	ed in all computer scie	ence courses
7.12	disaggregat	ed by gender, race, et	hnicity, free and	l reduced-price lunch	status, Individuals
7.13	with Disabi	ilities Education Act s	status, 504 status	s, and English languag	ge learner status;
7.14	(4) the r	number and percent of	f students with p	bassing advanced plac	ement (AP) exam
7.15	scores for h	igh school AP comput	er science cours	es disaggregated by ge	ender, race, ethnicity,
7.16	free and rec	luced-price lunch state	us, Individuals v	vith Disabilities Educ	ation Act status, 504
7.17	status, and	English language lear	ner status, once	that data is available;	and
7.18	(5) the r	number and percent of	f students taking	AP computer science	e placement exams
7.19	and the num	nber and percent of st	udents passing A	AP computer science	placement exams.
7.20	<u>(g)</u> The	Department of Educat	tion shall make	these reports public. T	The publicly released
7.21	data shall n	ot include student-lev	el personally id	entifiable information	<u>ı.</u>
7.22	Subd. 4	<u>Making computer s</u>	cience count. (a	a) By December 31, 2	023, the Department
7.23	of Educatio	on shall develop a high	n school graduat	tion policy that allows	s students:
7.24	<u>(1)</u> to fu	Ifill a maximum of or	ne credit in math	nematics for computer	r science courses
7.25	approved by	y the Department of H	Education to me	et a math graduation r	equirement. The
7.26	Department	t of Education shall ap	prove at least or	ne computer science co	ourse to meet a math
7.27	graduation	requirement;			
7.28	<u>(2) to fu</u>	llfill a maximum of or	ne credit in scier	nce, only for compute	r science courses
7.29	approved by	y the Department of H	Education to me	et a math graduation r	equirement. The
7.30	Department	t of Education shall a	oprove at least o	ne computer science	course to meet a
7.31	science gra	duation requirement,	and this course	shall be a different co	urse than the course

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
8.1	approved by	the Department of Ed	ucation to meet a	math graduation requi	irement. A computer
8.2	science cour	se may not replace a	student's require	ement to complete bio	blogy;
8.3	(3) to ful	fill any number of the	state or district e	elective credit requirem	nents with computer
8.4	science cour	ses. The Department	of Education sh	all approve at least fiv	ve computer science
8.5	courses to m	neet the elective credi	t requirements,	which shall include th	e course approved
8.6	to meet a ma	th graduation require	ment and the cou	rse approved to meet	a science graduation
8.7	requirement	2			
8.8	(4) to en	roll in multiple comp	uter science cou	rses to meet math, sci	ience, and elective
8.9	credits. One	course may not be us	sed to meet mor	e than one graduation	requirement.
8.10	(b) Begin	nning with the gradua	ating class of 202	25, any student will b	e eligible to receive
8.11	<u>a math, scie</u>	nce, or elective credit	t for the student'	s computer science co	ourse.
8.12	<u>Subd. 5.</u>	Incentives for teach	er preparation	On and after July 1,	2027, any program
8.13	of teacher pr	reparation leading to	professional cer	tification shall include	e, as part of the
8.14	curriculum,	instruction in compu-	ter science as ap	plied to student learn	ing and classroom
8.15	instruction t	hat are grade-level ar	nd subject-area a	ppropriate.	
8.16	<u>Subd. 6.</u>	Kindergarten throu	igh grade 12 da	ta collection system	and mandated
8.17	<u>reporting. (</u>	a) The Department of	f Education shal	l develop a plan to all	low for the secure
8.18	and automat	ic regular reporting of	f data and inform	nation from all kinderg	garten through grade
8.19	12 public sc	hools and public char	rter schools.		
8.20	<u>(b)</u> The d	lata collection process	s described in par	agraph (a) shall inclue	de but not be limited
8.21	to sufficient	course enrollment da	ata disaggregated	l by gender, race, ethi	nicity, free and
8.22	reduced-pric	e lunch status, Indivi	iduals with Disa	bilities Education Act	t status, 504 status,
8.23	and English	language learner stat	tus.		
8.24	<u>(c) The p</u>	blan described in para	ıgraph (a) shall i	nclude:	
8.25	<u>(1) a time</u>	eline for and identified	d supports to ens	ure full implementatio	n of all kindergarten
8.26	through grad	de 12 public schools a	and public chart	er schools by the 2024	4-2025 school year;
8.27	<u>(2)</u> ident	ification of mechanis	ms to ensure con	npliance with the dai	ly reporting
8.28	requirement	s by all kindergarten t	hrough grade 12	public schools and pu	blic charter schools
8.29	beginning w	rith the 2024-2025 sci	hool year and co	ontinuing thereafter; a	nd
8.30	(3) meth	ods for making aggre	gated data publi	cly available.	
8.31	<u>(d)</u> By D	ecember 31, 2023, the	e Department of	Education shall publis	sh the proposed data
8.32	collection pl	lan for public feedbac	<u>ck.</u>		

	SF757	REVISOR	СМ	S0757-1	1st Engrossment
9.1	(e) By F	ebruary 28, 2024, the	Department of	Education shall presen	it the adopted state
9.2				the chairs of the legis	
9.3	with jurisdie	ction over education.			
9.4	<u>(f) In cas</u>	ses of documented and	d reported syste	ems failures, daily repo	rting requirements
9.5	shall be cons	sidered met if all data r	reported using the	ne secure and automated	l process developed
9.6	under this su	ubdivision are submitt	ed no more that	n 30 calendar days after	the date of the last
9.7	submission.	By July 30 annually,	the Departmen	t of Education shall pu	blish a list of all
9.8	schools that	did not comply with	the daily report	ing requirements and a	ll reported systems
9.9	failures.				
9.10	<u>Subd. 7.</u>	Adoption of rules. T	The Department	of Education and Prof	essional Educator
9.11	Standards ar	nd Licensing Board ma	ay adopt rules to	administer the compute	er science education
9.12	advancemen	nt program, including	rules for flexib	le options to license co	mputer science
9.13	teachers, ap	proval codes, technica	al permits, anci	llary licenses, and stand	dard licenses.
9.14	Sec. 2. <u>AI</u>	PROPRIATION.			
9.15	Subdivis	sion 1. Department o	f Education. T	he sums indicated in th	is section are
9.16	appropriated	d from the general fur	nd to the Depart	tment of Education for	the fiscal years
9.17	designated.				
9.18	Subd. 2.	STEM grants. (a) Fo	or grants to ST	EM-focused programs	that work directly
9.19	with studen	ts providing additiona	I STEM educa	tion through after-schoo	ol programming or
9.20	new in-scho	ool programs:			
9.21	<u>\$</u>	4,000,000	2024		
9.22	<u>\$</u>	4,000,000			
9.23	(b) Eligi	ble grant recipients are	schools and scl	nool districts or nonprof	its that are currently
9.24	offering ST	EM-focused program	ming for kinder	garten through grade 1	2 students in
9.25	after-school	programs. Priority mu	ist be given to p	orograms with high free	and reduced-priced
9.26	lunch popul	ations and programs i	n schools or di	stricts receiving sparsit	y revenue under
9.27	Minnesota S	Statutes, section 126C	.10.		
9.28	<u>(c)</u> Gran	t awards must not exc	xeed \$125,000 j	per recipient.	
9.29	(d) Any	balance in the first ye	ar does not can	cel and is available in t	the second year.
9.30	<u>S</u> ubd. 3.	Computer science e	ducation adva	ncement. (a) For comp	outer science
9.31	advancemer	nt:			

	SF757	REVISOR		СМ	S0757-1	1st Engrossment
10.1 10.2	<u>\$</u>	<u>4,000,000</u> <u>4,000,000</u>	<u></u> 202 202			
10.3	(b) Eligib	ble uses of the a	ppropriati	ion include	expenses related to th	e implementation of
10.4	section 1, and	d expenses rela	ated to the	developme	nt, advancement, and	promotion of
10.5	kindergarten	through grade	12 compu	iter science	education.	
10.6	<u>(c)</u> Any b	palance in the f	irst year d	oes not cano	el and is available in	the second year.

10.7 (d) The base appropriation for fiscal year 2026 and later is \$4,000,000.